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Analysis of Operation 'Deep Six' Benthic Invertebrates

Marine Research, Inc, Falmouth, Mass

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Analysis of Operation

"Deep Six" Benthic Invertebrates

August 15, 1975

EPA Purchase Order No. 68-01-3179

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16. Abstracts

The study is a continuation of research into the effects of sludge and industrial wastes on two dumping sites in the mid-Atlantic continental shelf waters off Delaware Bay. There are two basic effects of marine pollution, both of which are under investigation in this area. Short-term effects typically occur in the water column and primarily affect plankton and pelagic organisms immediately or shortly after actual dumping occurs. Long-term effects are more generally observed in the benthic communities. This specific study is concerned only with the benthic organisms and must distinguish between the natural seasonal and successional fluctuations from fluctuations resulting from dumping.

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*Sludge,
*Industrial wastes,
*Benthos,
*Waste disposal,
*Delaware Bay,

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Marine microorganisms,
Seasonal variations,
Invertebrates,
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*Water pollution effects(animals).

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Analysis of Operation
"Deep Six" Benthic Invertebrates

Marine Research, Inc.
Falmouth, Massachusetts 02540

August 15, 1975

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I. Introduction

This study is a continuation of research into the effects of sludge and industrial wastes on two dumping sites in the mid-Atlantic continental shelf waters off Delaware Bay (Figure 1).

There are several important reasons for studying this area. It is constantly traversed by major ocean-going vessels of international trade and supports extensive demersal fishing as indicated by domestic and foreign fish trawling activity (Lear and Reisch, 1975). Inshore is located a surf clam fishery. Summer and winter sportfishing activities are also very common in the general area. Ecologically, it is a natural spawning and nursing ground for several fish and invertebrate species. There is also the potential for offshore oil exploration in this vicinity.

There are two basic effects of marine pollution, both of which are under investigation in this area. Short-term effects typically occur in the water column and primarily affect plankton and pelagic organisms immediately or shortly after actual dumping occurs. Long-term effects are more generally observed in the benthic communities. The stability and continuity of semi-permanent habitats (tubes, burrows, etc.) allow for long-term effects to be noted. This specific study is concerned only with the benthic organisms and must distinguish between the natural seasonal and successional fluctuations from fluctuations resulting from dumping.

Some questions to be ultimately answered are:

1. Are contaminants accumulating?

2. What is the extent of the area affected?

3. What ecological changes are occurring?

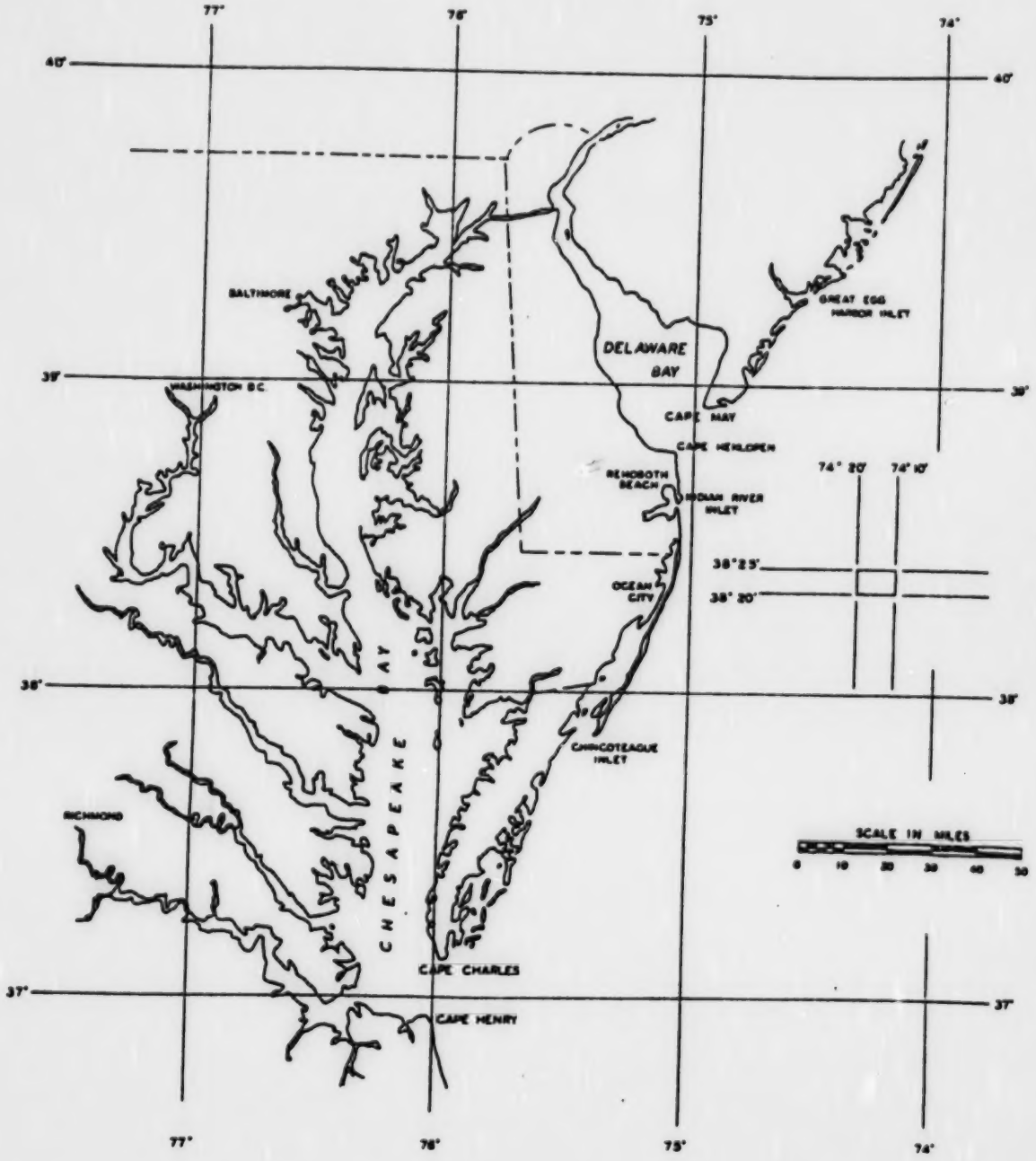

Figure 1 — Index map for the upper Chesapeake Bight area showing the location of the sludge dumpsite as a rectangle east of the Delmarva peninsula.

Sinderman (1972) has summarized three indications of the adverse effects of pollution in the marine environment:

1. Mass mortality, usually localized and of short-term effect.

2. Drastically reduced numbers of individuals, or species, indicated by lower diversity and/or the rapid exploitation of opportunistic species who take advantage of stress conditions.

3. Abnormal growth or disease such as tumors, erosion, or fungus.

D. J. Reish (1974) has found abnormal larvae of the polychaete, Capitella capitata, resulting from high levels of copper and zinc.

This study is primarily involved with noting any changes in communities over time as related to dumping. The diversity of communities directly within the dumpsite and the diversity of communities outside the dumpsite will also be compared. These data are compared to the previous data from this area, and interpretations as to the effects of dumping are made.

II. Previous Work

Previous work in this area was begun in May, 1973, (Palmer and Lear, 1973) before sludge dumping began. Operation Quicksilver sampled at nine stations; six inside the proposed dumpsite and three outside the dumpsite. One hundred and twenty species were represented. These consisted primarily of suspension feeders and carnivores indicative of firm sand-gravel communities. The site appeared unpolluted.

With Operation Fetch (Lear et al., 1974) in November, 1973, the post-dumping observations were initiated. This cruise covered a larger area outside the dumpsites. One hundred and thirty-three species were represented, and they contained the same dominant organisms as found in Quicksilver. No effects of pollution were evident, but further studies were deemed necessary before definitive statements could be made.

Operation Ides (Whatling et al., 1975) began in March, 1974. This survey covered an even greater area, as presumably the effects of dumping, if any, would not be localized. One hundred and fifty-one species were represented, consisting of basically the same dominants as in previous reports. Again, no direct adverse effects of dumping on benthic communities was documented.

In August, 1974, Operation Deep Six - the subject of this report - was initiated.

III. Methods

Twenty-five stations were chosen in and around the dumpsite (Figure 2). Benthic samples were taken in triplicate with a 0.04 m^2 Shipeck sampler. Samples were preserved in buffered formalin for later analysis.

In the laboratory, sediment was washed through a 0.5mm sieve to remove silt, formalin, and meiofauna. Samples were sorted under dissecting microscopes, identified to species in most cases, counted and permanently preserved.

The entire sample was analyzed in all cases except for the following, which were halved unless otherwise noted: Sta. D, replicates I, III; Sta. 17, replicates I, II, III; Sta. 18, replicate III; Sta. 21, replicates II, III; Sta. 24, replicates I, II, III (II, III were quartered); Sta. 25, replicates I, II, III (I was quartered); Sta. 26, replicates II, III; Sta. 28, replicates I, II, III; Sta. 29, replicates I, II, III.

Data representing the composition of duplicate samples and the results of sub-sampling experiments were analyzed using non-parametric methods. The composition of four paired grab samples representing replicate grabs at a single station were compared individually using Wilcoxon's signed rank test (Bradley, 1968) testing a null hypothesis of no significant differences between the occurrence of species in either sample (Table I). The computed probabilities were pooled using a method suggested by Sokal and Rohlf (1969). The chi-squared test of the pooled probabilities ($X^2 = 14.756$ at 8 degrees of freedom; $0.10 > P_{Ho} > 0.05$) indicates that over all samples there are no significant differences between the duplicates. We may conclude then that the method of sample collection is adequate.

In large samples it is sometimes desirable and necessary to subsample a single grab sample rather than count all individuals. A series of counting

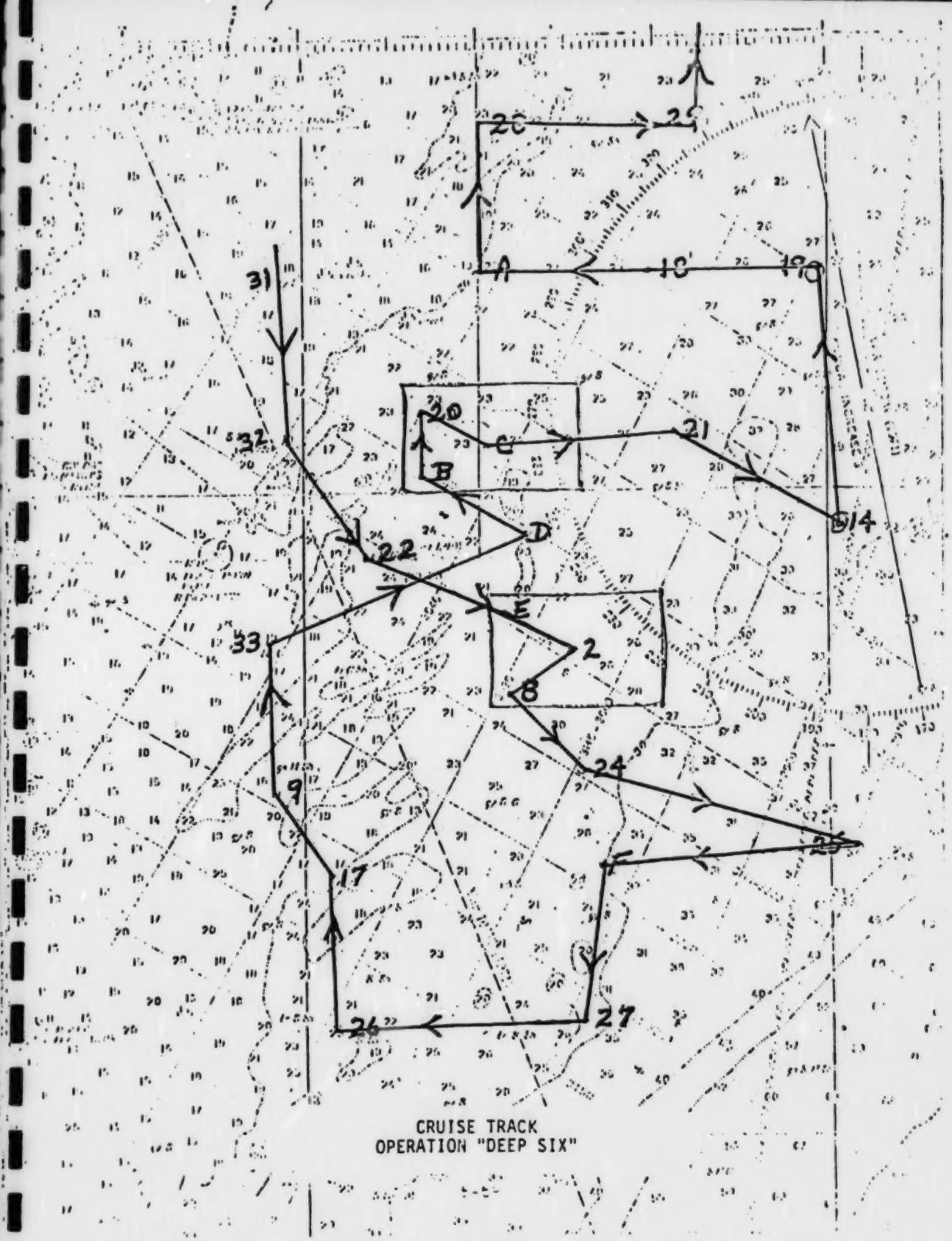

Figure 2.

experiments were conducted to test if a sample could be successfully divided into subsamples and the counts of subsamples used to represent the composition of the whole sample without adding a significant error. Twelve samples were divided in half and divided again, yielding 4 quarter subsamples. These subsamples were counted and the resulting counts analyzed using Friedman's two-way test (Bradley, 1968) (Table II). The resultant probabilities were then combined and tested against chi-squared. The chi-squared statistic (χ^2 = 35.925 at 24 degrees of freedom; $0.10 > P_{Ho} > 0.05$) suggests that overall there are no significant differences among quartered subsamples drawn from the same sample.

While the absolute numbers of individuals in a quartered sample are reflective of the total number of individuals in the whole sample, on the average, 43.8% of the total number of species in the entire sample was lost by quartering. Half samples are comparable to whole samples with a loss of only 19% of the number of species. Considering both options, it may be desirable to use half samples rather than quarter samples.

A major difficulty occurred with the mollusks. Although samples were presumably buffered, approximately two-thirds of them had decalcified or absent shells. Many could not be identified or were identified as best as possible by shape, internal anatomy and comparison of shells present which could be identified.

Hydrozoa and Ectoprocta were extremely rare and were not identified to species. Oligochaetes, nematodes, and nemertinea also were not identified to species.

The results were then subjected to statistical analyses, the primary statistical parameters being species diversity and percent similarity. Programs and facilities at the Woods Hole Oceanographic Institution Computer Center were used for this purpose.

IV. Results

a. Species Identification

The 75 samples taken had a total of 23,043 individuals representing 194 species and 19 phyla (Table III). Polychaetes were most abundant followed by amphipods and bivalves.

The twenty-one most abundant species are listed in Table IV by feeding types.

Deep Six and Ides had 22 stations in common. Twelve of these had the same dominant species; nine had many of the same dominants. There is a remarkable similarity in community composition between Deep Six and Ides samples.

One difficulty concerns the archiannelid called Polygordious sp. by Ides and Protodrilus sp. by Deep Six. Our identification is based on Losner (1972), and it is believed these are the same species. Polychaete identifications were essentially the same except for two families - Maldanidae and Cirratulidea - for which comprehensive keys for this area were not available.

Most amphipod species were the same. However, for Deep Six, the keys to the Haustoridea for the area were not complete. Deep Six had three minor families of Amphipods not occurring in Ides, and Ides had three families that failed to occur in Deep Six.

A complete species list for all four cruises is in Table V.

Of the top 12 dominant species in Deep Six, 10 of them are also in the top 12 dominant species of Ides. Table VI compares the dominant 16 species of Petch (November, 1974) with the next two cruises (Ides and Deep Six).

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There is a remarkable similarity between the three dates in the ranking of dominant species.

Feeding categories of Deep Six invertebrates consisted of deposit feeder, carnivore, omnivore, and suspension feeder. The percentagesof individuals in these categories were also compared to the three previous dates (May 1973; November 1973; March 1974). The communities have not appreciably changed their composition with respect to feeding types since the first post-dumping cruise (Table VII). Deposit feeders remain high at 86%; omnivores at 10.1%; carnivores at 3.3%; suspension feeders at 0.6%. Scavengers commonly represented by crustacea are negligible.

b. Statistical Analyses

Diversity indices and percent similarities were computed for each of the 25 samples represented in the study using methods outlined by Poole (1974) and Whittaker and Fairbanks (1958). Four measures of species diversity were employed: total species (S); Simpson's diversity index (D'); Shannon-Weaver diversity index (H'); and Margalef's diversity index (d). Each of these measures is sensitive to a different component of species diversity.

MacArthur (1965) and Poole (1974) suggest that direct counts of species provide a very effective measure of the relative richness of a community.

Simpson's index (D') is generally sensitive to changes in the composition of the dominant species. In this case the formulation from Pielou (1967) was employed:

$$D' = 1 - \sum_{i=1}^{S} \left(n_i(n_i-1) \right) / \left(N(N-1) \right)$$

where s is total number of species; n_i is the abundance of the i-th species; and N the total of all individuals in all species. This variant of the Simpson index is applied to finite sample cases and increases with heterogeneity.

The Shannon-Weaver diversity index (H') is sensitive to the equitability component of species diversity. All computations were carried out in the natural log base (e) giving results as nits/individual. The formulation employed was:

$$H' = \sum_{i=1}^{s} p_i \ln (p_i)$$

where p_i is the percent of the population represented by the i-th species.

Margalef's diversity index (d) was computed using the formula suggested by Margalef (1968):

$$d = (s - 1) / \ln (N)$$

where s is the number of species and N the total number of individuals in the population. This last index is a measure of the evenness of the distribution of individuals among species.

Together these diversity indices give a well-rounded measure of the four basic components of species diversity: species richness; heterogeneity of the community as represented by the dominant species; heterogeneity in terms of total community information content; and the evenness of species distribution.

Each measure of species diversity was grouped into one of two groups, those within the dumping sites and the controls outside the sites (Table VIII). A Mann-Whitney U-test was applied to these data testing a null hypothesis of no significant differences between both groups. If dumping of waste

materials in both dumping sites had a significant effect on the biotic communities we might expect significant differences among the diversities observed for the stations. The U-test indicates no significant differences among diversities in the dump sites compared to the controls (Table IX). We may reasonably conclude that dumping has not significantly decreased the diversity of communities in the dumping sites.

Percent similarities were also computed for the twenty-five stations (Table X). There is no strong evidence that the communities at stations within the dumping site differed appreciably from those outside the site, although cluster analyses might be useful in suggesting significant dissimilarities between stations.

V. Conclusion

Data gathered from the August, 1974, samples have been analyzed and compared with the previous cruises. Based on the similarity of community compositions throughout the sampling dates, it is concluded that there has been no significant change in the benthic fauna.

Diversity values reported from inside and outside the dumpsites were not significantly different.

No adverse effects of dumping in this area can be documented at this time.

Table I

Wilcoxon's Test of Duplicate Grab Samples

Sample	t	P_{Ho}
MW H1	0.297	0.775
DS 8	0.085	0.930
MW F	0.209	0.867
MW 18	3.387***	0.001

*** $P_{Ho} < 0.001$

$X^2 = 14.756$ at 8 degrees of freedom; Pooled $P_{Ho} > 0.05$

Table II

Friedman's Test on Quartered Samples

Sample	X^2	P_{Ho}
MW C1	8.163*	0.044
MW 28	2.282	0.512
MW 7-14	6.238	0.101
DS 9	2.132	0.591
DS 33	2.507	0.485
MW F i	3.672	0.366
MW F ii	27.454***	0.001
MW H1 i	2.236	0.529
MW 18 i	0.519	0.913
MW 18 ii	3.238	0.410
DS 8 i	0.682	0.878
DS 8 ii	3.523	0.381

* $P_{Ho} < 0.05$

*** $P_{Ho} < 0.001$

$X^2 = 35.925$ at 24 degrees of freedom; Pooled $P_{Ho} > 0.05$

Table III

List of Species and Densities

for Operation Deep Six

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY:	A	B	C	D	E	F	2	8	9	17	18	19	20
CLASS ANTHOZOA I	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.
CLASS ANTHOZOA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS ANTHOZOA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CLASS ANTHOZOA	0.	0.	.3333	0.	0.	0.	0.	0.	0.	0.	.3333	0.	0.
CERIANTHUS AMERICANUS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CERIANTHUS AMERICANUS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CERIANTHUS AMERICANUS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CERIANTHUS AMERICANUS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EDWARDSIIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EDWARDSIIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EDWARDSIIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE EDWARDSIIDAE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLUM NEMERTINEA I	5.000	0.	0.	8.000	1.000	0.	5.000	25.00	3.000	4.000	2.000	1.000	1.000
PHYLUM NEMERTINEA II	0.	1.000	0.	5.000	4.000	1.000	1.000	14.00	2.000	0.	2.000	1.000	1.000
PHYLUM NEMERTINEA III	0.	0.	0.	0.	2.000	0.	1.000	6.000	0.	2.000	6.000	3.000	0.
AVERAGE PHYLUM NEMERTINEA	1.667	.3333	0.	4.333	2.333	.3333	2.333	15.00	1.667	2.000	3.333	1.667	.6667
PHYLUM NEMATODA I	3.000	5.000	5.000	130.0	9.000	6.000	8.000	41.00	0.	82.00	0.	13.00	4.000
PHYLUM NEMATODA II	0.	11.00	3.000	39.00	39.00	1.000	16.00	91.00	0.	52.00	3.000	10.000	12.00
PHYLUM NEMATODA III	7.000	20.00	15.00	36.00	17.00	6.000	6.000	135.0	3.000	16.00	260.0	15.00	29.00
AVERAGE PHYLUM NEMATODA	3.333	12.00	7.667	68.33	21.67	4.333	10.000	89.00	1.000	50.00	87.67	12.67	15.00
PHYLUM ANNELIDA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLUM ANNELIDA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLUM ANNELIDA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PHYLUM ANNELIDA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS OLIGOCHAETA I	0.	0.	6.000	10.000	1.000	0.	0.	13.00	2.000	0.	0.	0.	0.
CLASS OLIGOCHAETA II	0.	0.	0.	3.000	1.000	0.	0.	45.00	0.	24.00	0.	0.	0.
CLASS OLIGOCHAETA III	0.	0.	1.000	0.	0.	0.	0.	3.000	0.	2.000	6.000	1.000	0.
AVERAGE CLASS OLIGOCHAETA	0.	0.	2.333	4.333	.6667	0.	0.	20.33	.6667	8.667	2.000	.3333	0.
PROTODRILUS SP. I	68.00	61.00	22.00	46.00	6.000	67.00	46.00	59.00	51.00	250.0	32.00	71.00	61.00
PROTODRILUS SP. II	0.	104.0	50.00	14.00	11.00	51.00	9.000	133.0	12.00	156.0	18.00	80.00	99.00
PROTODRILUS SP. III	71.00	50.00	18.00	36.00	7.000	45.00	10.000	27.00	121.0	12.00	212.0	109.0	124.0
AVERAGE PROTODRILUS SP.	46.33	71.67	30.00	32.00	8.000	54.33	21.67	73.00	61.33	139.3	87.33	86.67	94.67
CLASS POLYCHAETA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS POLYCHAETA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CLASS POLYCHAETA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES	LOCALITY: A	B	C	D	E	F	2	8	9	17	18	19	20
AGLAOPHAMUS CIRCINATA I	0.	12.00	14.00	4.000	9.000	9.000	18.00	5.000	8.000	20.00	36.00	17.00	17.00
AGLAOPHAMUS CIRCINATA II	1.000	9.000	14.00	0.	12.00	3.000	15.00	13.00	7.000	16.00	16.00	16.00	25.00
AGLAOPHAMUS CIRCINATA III	10.000	7.000	14.00	6.000	15.00	0.	11.00	4.000	10.000	4.000	20.00	40.00	27.00
AVERAGE AGLAOPHAMUS CIRCINATA	3.667	9.333	14.00	3.333	12.00	4.000	14.67	7.333	8.333	13.33	24.00	24.33	23.00
AGLAOPHAMUS VERRILLI I	15.00	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
AGLAOPHAMUS VERRILLI II	6.000	0.	0.	9.000	0.	0.	0.	0.	0.	0.	0.	0.	2.000
AGLAOPHAMUS VERRILLI III	0.	0.	0.	12.00	0.	0.	0.	0.	4.000	14.00	0.	0.	0.
AVERAGE AGLAOPHAMUS VERRILLI	7.000	0.	0.	7.667	0.	0.	0.	0.	1.333	4.667	0.	0.	.6667
AMPHARETE SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AMPHARETE SP. II	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
AMPHARETE SP. III	0.	0.	0.	0.	0.	7.000	0.	0.	0.	0.	0.	0.	0.
AVERAGE AMPHARETE SP.	0.	0.	0.	0.	0.	2.667	0.	0.	0.	0.	0.	0.	0.
ANNIDES SP. I	0.	1.000	1.000	0.	0.	0.	1.000	0.	1.000	0.	0.	1.000	1.000
ANNIDES SP. III	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000	3.000	0.	1.000
AVERAGE ANNIDES SP.	0.	2.000	3.000	2.000	0.	0.	1.000	0.	0.	2.000	2.000	2.000	1.000
	0.	1.000	1.333	.6667	0.	0.	.6667	0.	.3333	1.333	1.667	1.000	1.000
ARICIDEA SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ARICIDEA SP. II	2.000	0.	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.
ARICIDEA SP. III	0.	0.	0.	0.	0.	0.	0.	0.	0.	.6667	0.	0.	0.
AVERAGE ARICIDEA SP.	0.	0.	0.	0.	0.	0.	3.000	15.00	0.	2.000	0.	0.	0.
	.6667	0.	0.	2.000	1.000	0.	0.	10.000	0.	4.000	0.	0.	0.
ARICIDEA BELGICAE I	0.	0.	0.	.6667	.3333	0.	1.000	2.000	0.	0.	0.	0.	0.
ARICIDEA BELGICAE II	0.	0.	0.	0.	0.	0.	1.333	9.000	0.	2.000	0.	0.	3.000
ARICIDEA BELGICAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE ARICIDEA BELGICAE	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	1.000	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.000	0.
ARICIDEA JEFFREYSII I	0.	0.	0.	0.	.3333	0.	0.	0.	0.	4.000	4.000	0.	0.
ARICIDEA JEFFREYSII II	0.	0.	1.000	0.	0.	0.	0.	0.	0.	1.333	1.667	1.333	0.
ARICIDEA JEFFREYSII III	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.000
AVERAGE ARICIDEA JEFFREYSII	0.	0.	4.000	0.	0.	0.	0.	9.000	0.	0.	0.	0.	0.
	0.	0.	2.000	0.	0.	0.	0.	3.000	0.	0.	0.	0.	0.
ARICIDEA NEOSUECICA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
ARICIDEA NEOSUECICA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE ARICIDEA NEOSUECICA	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.000	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
									0.	1.333	0.	0.	0.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CORE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.09 SQUARE METERS

SPECIES	LOCALITY: A	B	C	D	E	F	2	8	9	17	18	19	20
ARICIDEA WASSI I	0.	1.000	0.	0.	0.	0.	0.	0.	5.000	0.	0.	0.	0.
ARICIDEA WASSI II	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.
ARICIDEA WASSI III	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.
AVERAGE ARICIDEA WASSI	0.	.3333	0.	0.	0.	0.	0.	.3333	2.000	0.	0.	0.	0.
CAPITELLA CAPITATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPITELLA CAPITATA III	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CAPITELLA CAPITATA	0.	0.	0.	0.	.6667	0.	0.	0.	0.	0.	0.	0.	0.
CHAETOZONE SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CHAETOZONE SP. III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CHAETOZONE SP.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CHAETOZONE SETOSA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CHAETOZONE SETOSA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CHAETOZONE SETOSA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CIRRATULIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CIRRATULIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CIRRATULIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CIRRATULIDAE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CIRROPHORUS LYRIFORMIS I	0.	0.	0.	0.	0.	0.	0.	1.000	0.	4.000	0.	0.	0.
CIRROPHORUS LYRIFORMIS III	0.	0.	0.	0.	0.	0.	0.	6.000	0.	0.	0.	0.	0.
AVERAGE CIRROPHORUS LYRIFORMIS	0.	0.	0.	0.	0.	0.	0.	2.333	0.	1.333	0.	0.	0.
CLYMENELLA SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLYMENELLA SP. II	2.000	1.000	3.000	0.	0.	3.000	9.000	0.	0.	0.	0.	0.	0.
CLYMENELLA SP. III	0.	1.000	11.00	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CLYMENELLA SP.	1.000	1.000	3.000	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
CLYMENELLA TORQUATA I	1.000	1.000	5.667	0.	1.333	1.333	3.000	0.	0.	0.	0.	7.000	11.00
CLYMENELLA TORQUATA II	0.	0.	0.	0.	7.000	0.	0.	0.	0.	0.	0.	4.000	20.00
AVERAGE CLYMENELLA TORQUATA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.000	32.00
DISPIO UNCINATA I	0.	0.	0.	0.	2.333	0.	0.	0.	0.	0.	0.	6.000	21.00
DISPIO UNCINATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DISPIO UNCINATA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE DISPIO UNCINATA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DRILONEREIS LONGA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DRILONEREIS LONGA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE DRILONEREIS LONGA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.	0.	0.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY:	A	B	C	D	E	F	G	H	9	17	18	19	20
DRILONEREIS MAGNA I	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.
DRILONEREIS MAGNA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DRILONEREIS MAGNA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE DRILONEREIS MAGNA	0.	0.	0.	0.	0.	0.	0.	.6667	0.	0.	0.	0.	0.
DYSPONETUS PYGMAEUS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DYSPONETUS PYGMAEUS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DYSPONETUS PYGMAEUS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE DYSPONETUS PYGMAEUS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EPHESIELLA MINUTA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EPHESIELLA MINUTA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EPHESIELLA MINUTA III	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
AVERAGE EPHESIELLA MINUTA	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.	0.	0.
EUSYLLIS LAMELLIGERA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EUSYLLIS LAMELLIGERA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EUSYLLIS LAMELLIGERA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE EUSYLLIS LAMELLIGERA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ELMIDA SANGUINEA I	1.000	0.	0.	0.	0.	0.	0.	8.000	0.	0.	0.	0.	0.
ELMIDA SANGUINEA II	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
ELMIDA SANGUINEA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE ELMIDA SANGUINEA	.3333	0.	0.	0.	0.	.3333	0.	2.667	0.	0.	0.	0.	0.
EXOGONE SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EXOGONE SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EXOGONE SP. III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE EXOGONE SP.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EXOGONE DISPAR I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EXOGONE DISPAR II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EXOGONE DISPAR III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE EXOGONE DISPAR	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EXOGONE HEBES I	0.	0.	0.	6.000	0.	4.000	0.	1.000	0.	2.000	3.000	0.	0.
EXOGONE HEBES II	0.	0.	0.	2.000	0.	3.000	1.000	2.000	0.	0.	1.000	0.	0.
EXOGONE HEBES III	0.	1.000	0.	2.000	1.000	5.000	2.000	7.000	0.	14.00	12.00	0.	1.000
AVERAGE EXOGONE HEBES	0.	.3333	0.	3.333	.3333	4.000	1.000	3.333	0.	5.333	5.333	0.	.3333
EXOGONE VERUGERA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EXOGONE VERUGERA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EXOGONE VERUGERA III	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.
AVERAGE EXOGONE VERUGERA	0.	0.	0.	0.	0.	0.	0.	.6667	0.	0.	0.	0.	0.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES	LOCALITY: A	B	C	D	E	F	2	8	9	17	18	19	20
GLYCERA CAPITATA I	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.
GLYCERA CAPITATA II	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
GLYCERA CAPITATA III	3.000	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.000
AVERAGE GLYCERA CAPITATA	1.000	.3333	.6667	0.	0.	0.	0.	0.	0.	0.	0.	.3333	1.667
GLYCERA DIBRANCHIATA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GLYCERA DIBRANCHIATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GLYCERA DIBRANCHIATA III	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	2.000	0.
AVERAGE GLYCERA DIBRANCHIATA	0.	0.	0.	0.	0.	.6667	0.	0.	0.	0.	0.	.6667	0.
GONIADELLA GRACILIS I	0.	0.	0.	0.	0.	0.	0.	30.00	0.	2.000	0.	0.	0.
GONIADELLA GRACILIS II	0.	0.	0.	0.	0.	0.	0.	40.00	0.	2.000	0.	0.	0.
GONIADELLA GRACILIS III	0.	0.	0.	0.	0.	0.	0.	41.00	0.	2.000	12.00	0.	0.
AVERAGE GONIADELLA GRACILIS	0.	0.	0.	0.	0.	0.	0.	37.00	0.	2.000	4.000	0.	0.
GONIADIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GONIADIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GONIADIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.
AVERAGE GONIADIDAE	0.	0.	0.	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.
HARMOTHOE EXTENUATA I	0.	3.000	0.	0.	1.000	0.	0.	20.00	5.000	2.000	0.	0.	1.000
HARMOTHOE EXTENUATA II	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	1.000	0.
HARMOTHOE EXTENUATA III	0.	1.000	0.	0.	0.	0.	0.	11.00	0.	2.000	0.	0.	0.
AVERAGE HARMOTHOE EXTENUATA	0.	1.333	0.	0.	1.000	0.	0.	10.33	1.667	1.333	0.	.3333	.3333
HYALINOECIA TUBICULA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HYALINOECIA TUBICULA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HYALINOECIA TUBICULA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE HYALINOECIA TUBICULA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HYDROIDES DIANTHUS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HYDROIDES DIANTHUS II	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.
HYDROIDES DIANTHUS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE HYDROIDES DIANTHUS	0.	0.	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.
LABNICE SERRATA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LABNICE SERRATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LABNICE SERRATA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE LABNICE SERRATA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LEANIRA HYSTRICIS I	0.	1.000	1.000	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.
LEANIRA HYSTRICIS II	0.	0.	0.	1.000	0.	1.000	0.	0.	0.	0.	0.	0.	0.
LEANIRA HYSTRICIS III	2.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.
AVERAGE LEANIRA HYSTRICIS	.6667	.3333	.3333	.3333	0.	.3333	0.	0.	0.	0.	.6667	.3333	0.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

LOCALITY:	A	B	C	D	E	F	2	8	9	17	18	19	20
SPECIES													
LUMBRINERIDAE I	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
LUMBRINERIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LUMBRINERIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE LUMBRINERIDAE	0.	0.	0.	.6667	0.	0.	0.	0.	0.	0.	0.	0.	0.
LUMBRINERIS SP. I	1.000	1.000	0.	0.	1.000	0.	0.	1.000	0.	0.	0.	0.	0.
LUMBRINERIS SP. II	0.	0.	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.
LUMBRINERIS SP. III	0.	0.	0.	0.	.3333	0.	0.	9.000	4.000	2.000	0.	0.	0.
AVERAGE LUMBRINERIS SP.	.3333	.3333	0.	0.	0.	0.	0.	11.00	1.000	4.000	0.	0.	0.
LUMBRINERIS ACUTA I	0.	0.	0.	1.000	0.	0.	1.000	9.000	2.000	2.000	6.000	0.	0.
LUMBRINERIS ACUTA II	0.	0.	0.	2.000	0.	0.	.3333	9.667	2.333	2.667	2.000	0.	0.
LUMBRINERIS ACUTA III	0.	0.	0.	1.000	0.	0.	0.	3.000	0.	10.000	0.	0.	1.000
AVERAGE LUMBRINERIS ACUTA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LUMBRINERIS FRAGILIS I	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	.3333
LUMBRINERIS FRAGILIS II	0.	0.	0.	0.	0.	0.	0.	1.000	.3333	3.333	0.	0.	1.000
LUMBRINERIS FRAGILIS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE LUMBRINERIS FRAGILIS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	6.000
LUMBRINERIS IMPATIENS I	0.	0.	3.000	0.	0.	17.00	0.	0.	0.	0.	0.	0.	2.333
LUMBRINERIS IMPATIENS II	0.	2.000	3.000	0.	0.	7.000	0.	0.	0.	0.	0.	0.	0.
LUMBRINERIS IMPATIENS III	1.000	0.	19.00	0.	0.	10.000	0.	0.	0.	0.	0.	0.	0.
AVERAGE LUMBRINERIS IMPATIENS	.3333	.6667	8.333	0.	0.	11.33	0.	0.	0.	0.	0.	16.00	1.000
LUMBRINERIS TENUIS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	17.00	0.
LUMBRINERIS TENUIS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	11.00	0.
LUMBRINERIS TENUIS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	14.67	.3333
AVERAGE LUMBRINERIS TENUIS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.		
MALDANIDAE I	1.000	0.	1.000	0.	0.	1.000	0.	0.	1.000	0.	1.000	0.	0.
MALDANIDAE II	0.	1.000	0.	0.	0.	0.	0.	0.	1.000	0.	2.000	0.	0.
MALDANIDAE III	0.	0.	0.	0.	0.	1.000	5.000	0.	0.	0.	0.	0.	0.
AVERAGE MALDANIDAE	.3333	.3333	.3333	0.	0.	.6667	1.667	0.	.6667	0.	1.000	0.	0.
MARPHYSA BELLI I	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.
MARPHYSA BELLI II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MARPHYSA BELLI III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE MARPHYSA BELLI	0.	0.	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.
MEDISMASTUS AMBISETA I	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.
MEDISMASTUS AMBISETA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MEDISMASTUS AMBISETA III	0.	0.	0.	0.	0.	0.	0.	2.000	7.000	0.	0.	0.	0.
AVERAGE MEDISMASTUS AMBISETA	0.	0.	0.	0.	0.	0.	0.	.6667	2.667	0.	0.	0.	0.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TAPE CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY:	A	B	C	D	E	F	2	8	9	17	18	19	20
MICROPHTHALMUS SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MICROPHTHALMUS SP. II	0.	0.	0.	0.	0.	0.	0.	8.000	0.	0.	0.	0.	0.
MICROPHTHALMUS SP. III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE MICROPHTHALMUS SP.	0.	0.	0.	0.	0.	0.	0.	2.667	0.	0.	0.	0.	0.
MINUSPIO SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.
MINUSPIO SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MINUSPIO SP. III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE MINUSPIO SP.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333	0.
MINUSPIO POLYBRANCHIATA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MINUSPIO POLYBRANCHIATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MINUSPIO POLYBRANCHIATA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE MINUSPIO POLYBRANCHIATA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MYRIOCHELE SP. I	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.
MYRIOCHELE SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MYRIOCHELE SP. III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE MYRIOCHELE SP.	0.	0.	0.	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.
NEPHTYS BUCERA I	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NEPHTYS BUCERA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NEPHTYS BUCERA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE NEPHTYS BUCERA	0.	.3333	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NEPHTYS PICTA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NEPHTYS PICTA II	0.	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.
NEPHTYS PICTA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE NEPHTYS PICTA	0.	0.	0.	0.	0.	0.	0.	0.	.6667	0.	0.	0.	0.
NEREIS GRAYI I	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.
NEREIS GRAYI II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NEREIS GRAYI III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE NEREIS GRAYI	0.	0.	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.
NEREIS SUCCINEA I	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
NEREIS SUCCINEA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NEREIS SUCCINEA III	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.
AVERAGE NEREIS SUCCINEA	0.	0.	0.	0.	0.	.3333	0.	.3333	0.	0.	0.	0.	0.
NOTOCIRRUS SPINIFERUS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NOTOCIRRUS SPINIFERUS II	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
NOTOCIRRUS SPINIFERUS III	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
AVERAGE NOTOCIRRUS SPINIFERUS	0.	0.	0.	0.	0.	.6667	0.	0.	0.	0.	0.	0.	0.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY:	A	B	C	D	E	F	G	8	9	17	18	19	20
NOTOMASTUS LATERICUS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NOTOMASTUS LATERICUS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NOTOMASTUS LATERICUS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE NOTOMASTUS LATERICUS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPHELIA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPHELIA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPHELIA III	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.
AVERAGE OPHELIA	0.	0.	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.
OPHELIDAE I	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
OPHELIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OPHELIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE OPHELIDAE	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.	0.	0.
SALPHIS SPALINA I	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
SALPHIS SPALINA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SALPHIS SPALINA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SALPHIS SPALINA	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.	0.	0.
ORBINIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ORBINIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ORBINIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE ORBINIDAE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL	200.0	299.0	219.0	380.0	154.0	260.0	170.0	870.0	257.0	718.0	672.0	452.0	490.0

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES	LOCALITY: 21	22	24	25	26	27	28	29	31	32	33	14	TOT
CLASS ANTHOZOA I	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	3.000
CLASS ANTHOZOA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS ANTHOZOA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CLASS ANTHOZOA	0.	0.	0.	0.	0.	0.	0.	0.	.3333	0.	0.	0.	1.000
CERIANTHUS AMERICANUS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CERIANTHUS AMERICANUS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CERIANTHUS AMERICANUS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CERIANTHUS AMERICANUS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EDWARDSIIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EDWARDSIIDAE II	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.000
EDWARDSIIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE EDWARDSIIDAE	0.	0.	1.333	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.333
PHYLUM NEMERTINEA I	1.000	0.	10.000	12.00	0.	0.	2.000	2.000	0.	1.000	2.000	0.	85.00
PHYLUM NEMERTINEA II	4.000	1.000	0.	0.	0.	3.000	4.000	6.000	0.	10.000	1.000	0.	61.00
PHYLUM NEMERTINEA III	2.000	1.000	12.00	0.	2.000	3.000	0.	6.000	5.000	3.000	0.	1.000	55.00
AVERAGE PHYLUM NEMERTINEA	2.333	.6667	7.333	4.000	.6667	2.000	2.000	4.667	1.667	4.667	1.000	.3333	67.00
PHYLUM NEMATODA I	15.00	10.000	96.00	216.0	1.000	2.000	14.00	64.00	2.000	3.000	4.000	1.000	734.0
PHYLUM NEMATODA II	14.00	3.000	428.0	48.00	0.	5.000	34.00	18.00	5.000	14.00	5.000	0.	851.0
PHYLUM NEMATODA III	22.00	6.000	400.0	0.	128.0	12.00	2.000	16.00	38.00	23.00	0.	2.000	1214.
AVERAGE PHYLUM NEMATODA	17.00	6.333	308.0	88.00	43.00	6.333	16.67	32.67	15.00	13.33	3.000	1.000	933.0
PHYLUM ANNELIDA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLUM ANNELIDA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLUM ANNELIDA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PHYLUM ANNELIDA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS OLIGOCHAETA I	0.	0.	44.00	12.00	0.	0.	12.00	10.000	0.	0.	0.	0.	110.0
CLASS OLIGOCHAETA II	2.000	1.000	40.00	0.	0.	0.	48.00	4.000	0.	0.	0.	0.	169.0
CLASS OLIGOCHAETA III	0.	0.	48.00	0.	2.000	4.000	4.000	0.	0.	0.	0.	0.	71.00
AVERAGE CLASS OLIGOCHAETA	.6667	.3333	44.00	4.000	.6667	1.333	21.33	4.667	0.	0.	0.	0.	116.3
PROTODRILUS SP. I	8.000	89.00	72.00	8.000	66.00	9.000	190.0	780.0	76.00	7.000	102.0	31.00	2278.
PROTODRILUS SP. II	26.00	60.00	40.00	2.000	60.00	25.00	60.00	444.0	71.00	8.000	61.00	40.00	1632.
PROTODRILUS SP. III	4.000	125.0	28.00	16.00	58.00	4.000	20.00	654.0	368.0	455.0	26.00	17.00	2617.
AVERAGE PROTODRILUS SP.	12.67	91.33	46.67	8.667	61.33	12.67	90.00	626.0	171.7	156.0	63.00	29.33	2176.
CLASS POLYCHAETA I	0.	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	4.000
CLASS POLYCHAETA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CLASS POLYCHAETA	0.	0.	0.	1.333	0.	0.	0.	0.	0.	0.	0.	0.	1.333

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TYPE CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES	LOCALITY: 21	22	24	25	26	27	28	29	31	32	33	14	TOT
CRILONEREIS MAGNA I	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.000
CRILONEREIS MAGNA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CRILONEREIS MAGNA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CRILONEREIS MAGNA	.3333	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
CYSPONETIS PYGMAEUS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CYSPONETIS PYGMAEUS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CYSPONETIS PYGMAEUS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	1.000
AVERAGE CYSPONETIS PYGMAEUS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333	.3333
EPHESIELLA MINUTA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EPHESIELLA MINUTA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EPHESIELLA MINUTA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE EPHESIELLA MINUTA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
ELSYLLIS LAMELLIGERA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ELSYLLIS LAMELLIGERA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ELSYLLIS LAMELLIGERA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE ELSYLLIS LAMELLIGERA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
ELPIDA SANGUINEA I	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	2.000
ELPIDA SANGUINEA II	0.	0.	0.	0.	.6667	0.	0.	0.	0.	0.	0.	0.	.6667
ELPIDA SANGUINEA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	9.000
AVERAGE ELPIDA SANGUINEA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
EXOGONE SP. I	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EXOGONE SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.333
EXOGONE SP. III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE EXOGONE SP.	0.	.3333	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EXOGONE DISPAR I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EXOGONE DISPAR II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
EXOGONE DISPAR III	0.	0.	0.	0.	6.000	0.	0.	0.	0.	0.	0.	0.	6.000
AVERAGE EXOGONE DISPAR	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
EXOGONE HEBES I	2.000	0.	8.000	16.00	0.	2.000	16.00	12.00	0.	0.	4.000	0.	76.00
EXOGONE HEBES II	10.00	5.000	28.00	40.00	0.	0.	28.00	30.00	0.	7.000	0.	0.	157.0
EXOGONE HEBES III	0.	7.000	8.000	20.00	12.00	7.000	32.00	38.00	0.	0.	3.000	0.	172.0
AVERAGE EXOGONE HEBES	4.000	4.000	14.67	25.33	4.000	3.000	25.33	26.67	0.	2.333	2.333	0.	135.0
EXOGONE VERUGERA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EXOGONE VERUGERA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EXOGONE VERUGERA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
AVERAGE EXOGONE VERUGERA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.6667

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES	LOCALITY: 21	22	24	25	26	27	28	29	31	32	33	14	TOT
GLYCERA CAPITATA I	0.	0.	24.00	0.	0.	0.	0.	6.000	0.	1.000	0.	0.	33.00
GLYCERA CAPITATA II	0.	4.000	12.00	6.000	0.	0.	0.	0.	0.	0.	0.	1.000	23.00
GLYCERA CAPITATA III	0.	0.	0.	4.000	0.	0.	0.	2.000	0.	0.	0.	1.000	7.000
AVERAGE GLYCERA CAPITATA	0.	1.333	12.00	3.333	0.	0.	0.	2.667	0.	.3333	0.	.6667	14.33
GLYCERA DIBRANCHIATA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GLYCERA DIBRANCHIATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GLYCERA DIBRANCHIATA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE GLYCERA DIBRANCHIATA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GONIADELLA GRACILIS I	0.	0.	32.00	0.	0.	0.	0.	0.	0.	19.00	0.	0.	51.00
GONIADELLA GRACILIS II	0.	0.	36.00	2.000	0.	0.	2.000	8.000	0.	2.000	0.	0.	87.00
GONIADELLA GRACILIS III	0.	0.	22.67	.6667	0.	0.	4.000	0.	0.	7.000	0.	0.	99.00
AVERAGE GONIADELLA GRACILIS	0.	0.				0.	2.000	2.667	0.		0.	0.	79.00
GONIADIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GONIADIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GONIADIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE GONIADIDAE	0.	0.				0.	0.	0.	0.		0.	0.	0.
HARMOTHOE EXTENUATA I	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	1.000	37.00	
HARMOTHOE EXTENUATA II	0.	1.000	12.00	2.000	0.	0.	2.000	0.	0.	0.	0.	18.00	
HARMOTHOE EXTENUATA III	4.000	0.	12.00	2.000	0.	0.	0.	0.	0.	0.	0.	36.00	
AVERAGE HARMOTHOE EXTENUATA	1.333	.3333	8.667	1.333	0.	4.000	0.	0.	0.	0.	.3333	30.33	
HYALINOECIA TUBICULA I	0.	0.	0.	4.000	0.	1.333	.6667	0.	0.	0.	0.	4.000	
HYALINOECIA TUBICULA II	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	2.000	
HYALINOECIA TUBICULA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
AVERAGE HYALINOECIA TUBICULA	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	2.000	
HYDROIDES DIANTHUS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
HYDROIDES DIANTHUS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	
HYDROIDES DIANTHUS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
AVERAGE HYDROIDES DIANTHUS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333	
LABNICE SERRATA I	0.	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	4.000	
LABNICE SERRATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
LABNICE SERRATA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
AVERAGE LABNICE SERRATA	0.	0.	0.	1.333	0.	0.	0.	0.	0.	0.	0.	1.333	
LEANIRA HYSTRICIS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.000	
LEANIRA HYSTRICIS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000	
LEANIRA HYSTRICIS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.000	
AVERAGE LEANIRA HYSTRICIS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.000	

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY:	21	22	24	25	26	27	28	29	31	32	33	14	TOT
LUMBRINERIDAE I	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	3.000
LUMBRINERIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LUMBRINERIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE LUMBRINERIDAE	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.	0.	0.	1.000
LUMBRINERIS SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
LUMBRINERIS SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
LUMBRINERIS SP. III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE LUMBRINERIS SP.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.333
LUMBRINERIS ACUTA I	1.000	0.	4.000	0.	1.000	0.	0.	4.000	0.	0.	2.000	0.	27.00
LUMBRINERIS ACUTA II	0.	0.	12.00	4.000	2.000	0.	0.	6.000	0.	0.	0.	0.	41.00
LUMBRINERIS ACUTA III	0.	0.	0.	2.000	0.	1.000	2.000	0.	0.	0.	1.000	0.	25.00
AVERAGE LUMBRINERIS ACUTA	.3333	0.	5.333	2.000	1.000	.3333	.6667	3.333	0.	0.	1.000	0.	32.00
LUMBRINERIS FRAGILIS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	14.00
LUMBRINERIS FRAGILIS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LUMBRINERIS FRAGILIS III	0.	0.	12.00	0.	4.000	0.	0.	0.	0.	0.	0.	0.	17.00
AVERAGE LUMBRINERIS FRAGILIS	0.	0.	4.000	0.	1.333	0.	0.	0.	0.	0.	0.	0.	10.33
LUMBRINERIS IMPATIENS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	21.00
LUMBRINERIS IMPATIENS II	0.	0.	8.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	20.00
LUMBRINERIS IMPATIENS III	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	6.000	0.	43.00
AVERAGE LUMBRINERIS IMPATIENS	0.	0.	2.667	0.	0.	0.	0.	0.	.3333	0.	2.000	0.	28.00
LUMBRINERIS TENUIS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	13.00
LUMBRINERIS TENUIS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	17.00
LUMBRINERIS TENUIS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	11.00
AVERAGE LUMBRINERIS TENUIS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333	15.33
MALDANIDAE I	0.	1.000	0.	4.000	0.	1.000	0.	0.	1.000	0.	1.000	0.	13.00
MALDANIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000	0.	6.000
MALDANIDAE III	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	8.000
AVERAGE MALDANIDAE	0.	.3333	0.	1.333	0.	1.000	0.	0.	.3333	0.	1.000	0.	9.000
MARPHYSA BELLI I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
MARPHYSA BELLI II	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	0.	2.000
MARPHYSA BELLI III	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	0.	2.000
AVERAGE MARPHYSA BELLI	0.	0.	0.	1.333	0.	0.	0.	0.	0.	0.	0.	0.	1.667
MEDIOMASTUS AMBISETA I	0.	2.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.000
MEDIOMASTUS AMBISETA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MEDIOMASTUS AMBISETA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.000	0.	14.00
AVERAGE MEDIOMASTUS AMBISETA	0.	.6667	0.	0.	0.	0.	0.	0.	0.	0.	1.667	0.	5.667

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION.

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS.

SPECIES / LOCALITY:	21	22	24	25	26	27	28	29	31	32	33	14	TOT
MICROPHTHALMUS SP. I	C.	C.	0.	0.	0.	0.	0.	0.	0.	C.	0.	0.	0.
MICROPHTHALMUS SP. II	C.	C.	0.	0.	0.	0.	0.	0.	0.	C.	0.	0.	8.000
MICROPHTHALMUS SP. III	0.	0.	0.	0.	0.	0.	C.	0.	C.	C.	0.	0.	0.
AVERAGE MICROPHTHALMUS SP.	C.	C.	0.	0.	0.	0.	0.	0.	C.	C.	C.	0.	2.667
MINUSPIO SP. I	0.	C.	0.	0.	0.	0.	0.	0.	0.	0.	C.	0.	1.000
MINUSPIO SP. II	C.	C.	0.	0.	0.	0.	0.	0.	C.	C.	C.	0.	0.
MINUSPIO SP. III	0.	C.	0.	0.	0.	0.	0.	0.	C.	C.	0.	0.	0.
AVERAGE MINUSPIO SP.	C.	C.	0.	0.	0.	0.	0.	0.	C.	C.	0.	0.	.3333
MINUSPIO POLYBRANCHIATA I	C.	C.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MINUSPIO POLYBRANCHIATA II	C.	C.	0.	0.	0.	0.	0.	0.	0.	0.	C.	0.	0.
MINUSPIO POLYBRANCHIATA III	C.	C.	0.	2.000	0.	0.	0.	0.	0.	C.	C.	0.	2.000
AVERAGE MINUSPIO POLYBRANCHIATA	C.	C.	0.	.6667	0.	0.	0.	0.	C.	C.	0.	0.	.6667
MYRIOCHELE SP. I	C.	0.	0.	0.	0.	0.	0.	0.	0.	C.	0.	0.	1.000
MYRIOCHELE SP. II	C.	C.	0.	0.	0.	0.	0.	0.	0.	0.	C.	0.	0.
MYRIOCHELE SP. III	C.	C.	C.	0.	0.	0.	0.	0.	C.	C.	0.	0.	0.
AVERAGE MYRIOCHELE SP.	C.	C.	0.	0.	0.	0.	0.	0.	0.	C.	0.	0.	.3333
NEPHTYS BLCERA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.	3.000
NEPHTYS BLCERA II	C.	C.	0.	0.	0.	0.	0.	0.	0.	C.	C.	0.	0.
NEPHTYS BLCERA III	C.	C.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE NEPHTYS BLCERA	C.	C.	0.	0.	0.	0.	0.	C.	0.	.6667	0.	0.	1.000
NEPHTYS PICTA I	C.	C.	0.	0.	0.	0.	0.	0.	C.	0.	0.	0.	0.
NEPHTYS PICTA II	C.	C.	C.	0.	0.	0.	0.	0.	C.	C.	0.	0.	2.000
NEPHTYS PICTA III	C.	C.	0.	0.	0.	0.	0.	0.	C.	C.	0.	0.	0.
AVERAGE NEPHTYS PICTA	0.	C.	0.	0.	0.	0.	0.	0.	C.	C.	0.	0.	.6667
NEREIS GRAYI I	0.	0.	0.	0.	0.	0.	0.	0.	C.	0.	0.	0.	1.000
NEREIS GRAYI II	0.	1.000	0.	0.	0.	0.	0.	0.	0.	C.	0.	0.	1.000
NEREIS GRAYI III	C.	C.	0.	0.	0.	0.	0.	0.	C.	0.	0.	0.	0.
AVERAGE NEREIS GRAYI	C.	.3333	0.	0.	0.	0.	0.	0.	0.	C.	0.	0.	.6667
NEREIS SUCCINEA I	0.	0.	0.	0.	0.	0.	0.	0.	C.	0.	0.	0.	1.000
NEREIS SUCCINEA II	C.	C.	0.	0.	0.	0.	0.	C.	C.	C.	0.	0.	C.
NEREIS SUCCINEA III	C.	C.	0.	0.	0.	0.	0.	0.	C.	C.	C.	0.	1.000
AVERAGE NEREIS SUCCINEA	C.	C.	C.	0.	0.	0.	0.	0.	C.	C.	0.	0.	.6667
NOTOCIRRUS SPINIFERUS I	C.	0.	C.	0.	0.	0.	C.	0.	0.	C.	0.	0.	0.
NOTOCIRRUS SPINIFERUS II	C.	C.	0.	0.	0.	0.	0.	0.	C.	C.	0.	0.	1.000
NOTOCIRRUS SPINIFERUS III	C.	C.	0.	0.	0.	0.	0.	0.	0.	C.	0.	0.	1.000
AVERAGE NOTOCIRRUS SPINIFERUS	C.	C.	C.	0.	0.	0.	0.	0.	C.	C.	0.	0.	.6667

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TYPE CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY:	21	22	24	25	26	27	28	29	31	32	33	14	TOT
NOTOMASTUS LATERICUS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NOTOMASTUS LATERICUS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NOTOMASTUS LATERICUS III	0.	0.	0.	2.000	0.	1.000	0.	0.	0.	0.	0.	0.	3.000
AVERAGE NOTOMASTUS LATERICUS	0.	0.	0.	.6667	0.	.3333	0.	0.	0.	0.	0.	0.	1.000
SPHELIA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SPHELIA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SPHELIA III	0.	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	5.000
AVERAGE SPHELIA	0.	0.	0.	1.333	0.	0.	0.	0.	0.	0.	0.	0.	1.667
SPHELIDAE I	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	2.000
SPHELIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SPHELIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SPHELIDAE	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.	0.	0.	.6667
SNLPHIS SPALINA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
SNLPHIS SPALINA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SNLPHIS SPALINA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SNLPHIS SPALINA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
SRBINIDAE I	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	1.000
SRBINIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SRBINIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SRBINIDAE	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.	0.	0.	.3333
TOTAL	177.0	365.0	1484.	498.0	385.0	116.0	528.0	2160.	595.0	558.0	269.0	158.0	12434.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION.

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES	LOCALITY: A	B	C	D	E	F	2	8	9	17	18	19	20
PARAONIS GRACILIS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PARAONIS GRACILIS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PARAONIS GRACILIS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PARAONIS GRACILIS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PARAONIS LYRA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PARAONIS LYRA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PARAONIS LYRA III	0.	0.	0.	0.	0.	0.	0.	5.000	0.	0.	0.	0.	0.
AVERAGE PARAONIS LYRA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PARAONIS FULGENS I	0.	0.	0.	0.	0.	0.	0.	1.667	0.	0.	0.	0.	0.
PARAONIS FULGENS II	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PARAONIS FULGENS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PARAONIS FULGENS	0.	.3333	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PARAPIONOSYLLIS LONGICIRRATA I	2.000	0.	0.	2.000	0.	0.	0.	4.000	0.	8.000	0.	0.	0.
PARAPIONOSYLLIS LONGICIRRATA II	0.	0.	0.	0.	0.	0.	0.	14.00	0.	0.	0.	0.	0.
PARAPIONOSYLLIS LONGICIRRATA III	0.	0.	0.	0.	0.	0.	0.	10.000	0.	8.000	18.00	0.	0.
AVERAGE PARAPIONOSYLLIS LONGICIRRATA	.6667	0.	0.	.6667	0.	0.	0.	9.333	0.	5.333	6.000	0.	0.
PHERUSA AFFINIS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHERUSA AFFINIS II	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHERUSA AFFINIS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PHERUSA AFFINIS	0.	.3333	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHOLOE MINUTA I	0.	0.	0.	0.	0.	2.000	0.	0.	1.000	0.	0.	0.	0.
PHOLOE MINUTA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHOLOE MINUTA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PHOLOE MINUTA	0.	0.	0.	0.	0.	.6667	0.	0.	.3333	0.	0.	0.	0.
PHYLLODOCE SP. I	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLLODOCE SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLLODOCE SP. III	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PHYLLODOCE SP.	0.	.3333	0.	.6667	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLLODOCE ARENAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLLODOCE ARENAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLLODOCE ARENAE III	0.	0.	0.	0.	0.	0.	5.000	0.	0.	0.	3.000	0.	0.
AVERAGE PHYLLODOCE ARENAE	0.	0.	3.000	0.	0.	0.	0.	0.	0.	6.000	0.	0.	0.
PHYLLODOCE MACULATA I	0.	0.	1.000	0.	0.	0.	1.667	0.	0.	0.	0.	0.	0.
PHYLLODOCE MACULATA II	1.000	0.	0.	0.	0.	0.	0.	0.	0.	2.000	1.000	0.	0.
PHYLLODOCE MACULATA III	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.
AVERAGE PHYLLODOCE MACULATA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	.3333	0.	0.	0.	0.	0.	0.	.3333	.3333	0.	0.	0.	0.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES	LOCALITY: A	B	C	D	E	F	2	8	9	17	18	19	20
PHYLLODOCE MUCOSA I	0.	2.000	0.	0.	1.000	0.	9.000	0.	0.	4.000	1.000	0.	4.000
PHYLLODOCE MUCOSA II	0.	0.	0.	2.000	3.000	0.	1.000	0.	2.000	0.	8.000	0.	3.000
PHYLLODOCE MUCOSA III	16.00	0.	0.	0.	1.000	2.000	4.000	0.	1.000	2.000	0.	0.	14.00
AVERAGE PHYLLODOCE MUCOSA	5.333	.6667	0.	.6667	1.667	.6667	4.667	0.	1.000	2.000	3.000	0.	7.000
PHYLLODOCIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.
PHYLLODOCIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLLODOCIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PHYLLODOCIDAE	0.	0.	0.	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.
PISIONE REMOTA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PISIONE REMOTA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PISIONE REMOTA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PISIONE REMOTA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLYDORA SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLYDORA SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLYDORA SP. III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE POLYDORA SP.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLYDORA COLONIA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLYDORA COLONIA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLYDORA COLONIA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE POLYDORA COLONIA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLYDORA COMPENSALIS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLYDORA COMPENSALIS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLYDORA COMPENSALIS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE POLYDORA COMPENSALIS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLYDORA SOCIALIS I	0.	0.	0.	0.	0.	6.000	0.	26.00	0.	0.	0.	0.	0.
POLYDORA SOCIALIS II	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	4.000	0.	3.000
POLYDORA SOCIALIS III	0.	0.	0.	0.	0.	1.000	0.	3.000	0.	0.	0.	1.000	0.
AVERAGE POLYDORA SOCIALIS	0.	0.	0.	0.	0.	2.667	0.	9.667	0.	0.	1.333	.3333	1.000
POTAMILLA NEGLECTA I	0.	0.	1.000	0.	0.	0.	0.	2.000	0.	0.	1.000	3.000	3.000
POTAMILLA NEGLECTA II	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	1.000	0.
POTAMILLA NEGLECTA III	1.000	0.	4.000	2.000	0.	2.000	0.	0.	0.	0.	0.	1.000	0.
AVERAGE POTAMILLA NEGLECTA	.3333	0.	1.667	.6667	0.	1.000	0.	.6667	0.	0.	.3333	1.667	1.000
POTAMILLA RENIFORMIS I	0.	0.	0.	0.	0.	5.000	0.	0.	0.	0.	0.	0.	0.
POTAMILLA RENIFORMIS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POTAMILLA RENIFORMIS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE POTAMILLA RENIFORMIS	0.	0.	0.	0.	0.	1.667	0.	0.	0.	0.	0.	0.	0.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES	LOCALITY: A	B	C	D	E	F	2	8	9	17	18	19	20
PRAXILLELLA SP. I	0.	1.000	1.000	0.	0.	1.000	0.	11.00	2.000	0.	0.	11.00	0.
PRAXILLELLA SP. II	0.	0.	0.	0.	0.	4.000	8.000	0.	1.000	0.	0.	2.000	0.
PRAXILLELLA SP. III	0.	3.000	6.000	2.000	1.000	0.	0.	7.000	3.000	0.	6.000	0.	0.
AVERAGE PRAXILLELLA SP.	0.	1.333	2.333	.6667	.3333	1.667	2.667	6.000	2.000	0.	2.000	4.333	0.
PRIONOSPIO HETEROBRANCHIA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PRIONOSPIO HETEROBRANCHIA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PRIONOSPIO HETEROBRANCHIA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PRIONOSPIO HETEROBRANCHIA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PROTODORVILLEA KERFESTEINI I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PROTODORVILLEA KERFESTEINI II	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.
PROTODORVILLEA KERFESTEINI III	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.
AVERAGE PROTODORVILLEA KERFESTEINI	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.
PROTODORVILLEA MINUTA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.
PROTODORVILLEA MINUTA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PROTODORVILLEA MINUTA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.
AVERAGE PROTODORVILLEA MINUTA	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.333	0.	0.	0.
CLESTIDAE I	0.	0.	0.	0.	0.	0.	0.	3.000	0.	0.	0.	0.	0.
CLESTIDAE II	0.	0.	0.	0.	0.	0.	0.	12.00	0.	6.000	0.	0.	0.
CLESTIDAE III	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.	2.000	0.	0.
AVERAGE CLESTIDAE	0.	0.	0.	0.	0.	0.	0.	5.667	0.	2.000	.6667	0.	0.
SCALIBREGMA INFLATUM I	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	1.000	0.
SCALIBREGMA INFLATUM II	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.
SCALIBREGMA INFLATUM III	0.	0.	1.000	0.	0.	0.	1.000	1.000	0.	0.	0.	2.000	0.
AVERAGE SCALIBREGMA INFLATUM	0.	0.	.3333	0.	0.	1.333	.3333	.3333	0.	0.	0.	1.000	0.
SCOLELEPIS SQUAMATUS I	0.	0.	0.	8.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SCOLELEPIS SQUAMATUS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SCOLELEPIS SQUAMATUS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SCOLELEPIS SQUAMATUS	0.	0.	0.	2.667	0.	0.	0.	0.	0.	0.	0.	0.	0.
SCOLOPLOS ACUTUS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
SCOLOPLOS ACUTUS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SCOLOPLOS ACUTUS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
AVERAGE SCOLOPLOS ACUTUS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SCOLOPLOS ARMIGER I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SCOLOPLOS ARMIGER II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
SCOLOPLOS ARMIGER III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
AVERAGE SCOLOPLOS ARMIGER	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

LOCALITY:	A	B	C	D	E	F	2	8	9	17	18	19	20
SPECIES													
SIGALION ARENICOLA I	0.	0.	0.	0.	0.	0.	2.000	0.	0.	2.000	0.	0.	0.
SIGALION ARENICOLA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.
SIGALION ARENICOLA III	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.
AVERAGE SIGALION ARENICOLA	0.	0.	0.	0.	0.	0.	1.000	0.	0.	1.333	0.	0.	0.
SIGALIONIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SIGALIONIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.
SIGALIONIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SIGALIONIDAE	0.	0.	0.	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.
SPHAEROSYLLIS ERINACEUS I	0.	0.	0.	0.	0.	0.	0.	7.000	0.	2.000	0.	0.	0.
SPHAEROSYLLIS ERINACEUS II	0.	0.	0.	0.	0.	0.	0.	7.000	0.	0.	0.	0.	0.
SPHAEROSYLLIS ERINACEUS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SPHAEROSYLLIS ERINACEUS	0.	0.	0.	0.	0.	0.	0.	4.667	0.	.6667	0.	0.	0.
SPIONIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SPIONIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SPIONIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SPIONIDAE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SPIOPHANES BOMBYX I	58.00	23.00	14.00	28.00	113.0	275.0	571.0	0.	70.00	0.	195.0	2.000	167.0
SPIOPHANES BOMBYX II	2.000	13.00	55.00	93.00	128.0	69.00	148.0	23.00	49.00	46.00	158.0	18.00	189.0
SPIOPHANES BOMBYX III	144.0	10.000	45.00	30.00	48.00	197.0	199.0	1.000	144.0	56.00	12.00	32.00	163.0
AVERAGE SPIOPHANES BOMBYX	68.00	15.33	38.00	50.33	96.33	180.3	306.0	8.000	87.67	34.00	121.7	17.33	173.0
SPIROBIS SPIRILLUM I	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.
SPIROBIS SPIRILLUM II	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.
SPIROBIS SPIRILLUM III	0.	0.	0.	0.	0.	0.	0.	3.000	0.	0.	0.	0.	0.
AVERAGE SPIROBIS SPIRILLUM	0.	0.	0.	0.	0.	0.	0.	1.667	0.	0.	0.	0.	0.
STAURONEREIS CAECUS I	0.	0.	0.	8.000	0.	0.	0.	1.000	0.	0.	0.	0.	0.
STAURONEREIS CAECUS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
STAURONEREIS CAECUS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE STAURONEREIS CAECUS	0.	0.	0.	2.667	0.	0.	0.	.3333	0.	0.	0.	0.	0.
STHENELAIS SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
STHENELAIS SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
STHENELAIS SP. III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE STHENELAIS SP.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
STHENELAIS BOA I	0.	0.	1.000	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.
STHENELAIS BOA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
STHENELAIS BOA III	0.	0.	.3333	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.
AVERAGE STHENELAIS BOA	0.	0.	.3333	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY:	A	B	C	D	E	F	2	8	9	17	18	19	20
STHENELAIS LIMICOLA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.
STHENELAIS LIMICOLA II	0.	2.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
STHENELAIS LIMICOLA III	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE STHENELAIS LIMICOLA	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333	.3333
STREPTOSYLLIS HYSTRIX I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
STREPTOSYLLIS HYSTRIX II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
STREPTOSYLLIS HYSTRIX III	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.
AVERAGE STREPTOSYLLIS HYSTRIX	0.	0.	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.
STREPTOSYLLIS VARIANS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
STREPTOSYLLIS VARIANS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
STREPTOSYLLIS VARIANS III	0.	0.	0.	2.000	0.	0.	0.	0.	0.	6.000	0.	0.	0.
AVERAGE STREPTOSYLLIS VARIANS	0.	0.	0.	.6667	0.	0.	0.	0.	0.	2.000	0.	0.	0.
SYLLIDAE I	0.	0.	0.	0.	0.	0.	0.	1.000	1.000	0.	0.	0.	0.
SYLLIDAE II	0.	0.	0.	0.	0.	0.	0.	3.000	0.	0.	0.	0.	0.
SYLLIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SYLLIDAE	0.	0.	0.	0.	0.	0.	0.	1.333	.3333	0.	0.	0.	0.
SYLLIDES LONGOCIRRATA I	0.	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
SYLLIDES LONGOCIRRATA II	0.	0.	0.	0.	0.	0.	0.	3.000	0.	6.000	0.	0.	0.
SYLLIDES LONGOCIRRATA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SYLLIDES LONGOCIRRATA	0.	0.	0.	1.333	0.	0.	0.	1.000	0.	2.000	0.	0.	0.
SYLLIDES SETOSA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SYLLIDES SETOSA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SYLLIDES SETOSA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SYLLIDES SETOSA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SYLLIS GRACILIS I	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.
SYLLIS GRACILIS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SYLLIS GRACILIS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SYLLIS GRACILIS	0.	0.	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.
TEREBELLIDAE I	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	1.000	0.
TEREBELLIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TEREBELLIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE TEREBELLIDAE	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.	.3333	0.
TEREBELLIDES STROEMI I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TEREBELLIDES STROEMI II	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
TEREBELLIDES STROEMI III	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.
AVERAGE TEREBELLIDES STROEMI	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY:	A	B	C	D	E	F	2	8	9	17	18	19	20
THARYX SP. I	0.	0.	3.000	0.	1.000	0.	1.000	16.00	0.	2.000	0.	0.	0.
THARYX SP. II	0.	0.	2.000	0.	0.	0.	0.	3.000	0.	0.	0.	0.	0.
THARYX SP. III	0.	0.	15.00	2.000	0.	0.	0.	0.	0.	0.	12.00	0.	0.
AVERAGE THARYX SP.	0.	0.	6.667	.6667	.3333	0.	.3333	6.333	0.	.6667	4.000	0.	0.
TRAVISIA CARNEA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TRAVISIA CARNEA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TRAVISIA CARNEA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE TRAVISIA CARNEA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TRICHOBRANCHUS SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TRICHOBRANCHUS SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TRICHOBRANCHUS SP. III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE TRICHOBRANCHUS SP.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLUM MOLLUSCA I	0.	3.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLUM MOLLUSCA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLUM MOLLUSCA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.
AVERAGE PHYLUM MOLLUSCA	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333	0.
CLASS GASTROPODA I	0.	0.	0.	0.	2.000	1.000	0.	0.	0.	2.000	0.	0.	0.
CLASS GASTROPODA II	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.
CLASS GASTROPODA III	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.
AVERAGE CLASS GASTROPODA	0.	.3333	0.	0.	.6667	1.000	0.	0.	0.	.6667	.6667	0.	0.
COLUS PUBESCENS I	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.
COLUS PUBESCENS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUS PUBESCENS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE COLUS PUBESCENS	0.	0.	0.	0.	0.	0.	.6667	0.	0.	0.	0.	0.	0.
LUNATIA HEROS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LUNATIA HEROS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LUNATIA HEROS III	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE LUNATIA HEROS	0.	.3333	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NASSARIUS TRIVITTATUS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NASSARIUS TRIVITTATUS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NASSARIUS TRIVITTATUS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE NASSARIUS TRIVITTATUS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NUDIBRANCHIA I	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.
NUDIBRANCHIA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NUDIBRANCHIA III	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
AVERAGE NUDIBRANCHIA	0.	0.	0.	0.	0.	.3333	0.	.3333	0.	0.	0.	0.	0.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TYPE CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES \ LOCALITY:	A	B	C	D	E	F	2	4	9	17	18	19	20
RETUSA CANALICULATA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
RETUSA CANALICULATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
RETUSA CANALICULATA III	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.
AVERAGE RETUSA CANALICULATA	0.	0.	0.	0.	0.	0.	.6667	0.	0.	0.	0.	0.	0.
SKENEOPSIS PLANORBIS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SKENEOPSIS PLANORBIS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.
SKENEOPSIS PLANORBIS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SKENEOPSIS PLANORBIS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333	0.	0.
CLASS BIVALVIA I	1.000	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.
CLASS BIVALVIA II	0.	0.	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.
CLASS BIVALVIA III	0.	0.	0.	0.	1.000	3.000	0.	0.	1.000	0.	0.	0.	0.
AVERAGE CLASS BIVALVIA	.3333	0.	0.	0.	1.667	1.000	0.	.3333	.3333	0.	0.	0.	0.
ASTARTE SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ASTARTE SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ASTARTE SP. III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE ASTARTE SP.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ASTARTE CASTANEA I	0.	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.
ASTARTE CASTANEA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ASTARTE CASTANEA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE ASTARTE CASTANEA	0.	0.	0.	0.	0.	0.	0.	0.	.6667	0.	0.	0.	0.
ASTARTE LNDATA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ASTARTE LNDATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ASTARTE LNDATA III	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
AVERAGE ASTARTE LNDATA	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.	0.	0.
CERASTODERMA PINNULATUM I	0.	0.	0.	0.	0.	4.000	0.	0.	0.	0.	0.	3.000	0.
CERASTODERMA PINNULATUM II	0.	0.	0.	0.	1.000	1.000	0.	1.000	0.	0.	4.000	0.	0.
CERASTODERMA PINNULATUM III	0.	0.	0.	0.	1.000	2.000	0.	0.	0.	0.	0.	0.	0.
AVERAGE CERASTODERMA PINNULATUM	0.	0.	0.	0.	.6667	2.333	0.	.3333	0.	0.	1.333	1.000	0.
CHLAMYS NANA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CHLAMYS NANA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CHLAMYS NANA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CHLAMYS NANA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CRENELLA GLANDULA I	0.	0.	0.	0.	0.	2.000	0.	1.000	0.	0.	0.	0.	0.
CRENELLA GLANDULA II	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	1.000	0.	0.
CRENELLA GLANDULA III	0.	0.	0.	2.000	0.	17.00	0.	0.	0.	0.	0.	0.	0.
AVERAGE CRENELLA GLANDULA	0.	0.	0.	.6667	.3333	6.333	0.	.3333	0.	0.	.3333	0.	0.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY:	A	B	C	D	E	F	G	H	9	17	18	19	20
ENSIS DIRECTUS I	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.
ENSIS DIRECTUS II	0.	0.	1.000	0.	0.	0.	1.000	0.	0.	0.	1.000	0.	0.
ENSIS DIRECTUS III	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.
AVERAGE ENSIS DIRECTUS	0.	0.	.3333	0.	.3333	0.	1.000	0.	0.	0.	.3333	0.	0.
TOTAL	225.0	63.00	152.0	187.0	307.0	608.0	957.0	181.0	280.0	162.0	429.0	80.00	569.0

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY:	21	22	24	25	26	27	28	29	31	32	33	14	TOT
PARAONIS GRACILIS I	0.	0.	0.	12.00	0.	0.	0.	0.	0.	0.	0.	0.	12.00
PARAONIS GRACILIS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PARAONIS GRACILIS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PARAONIS GRACILIS	0.	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	4.000
PARAONIS LYRA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PARAONIS LYRA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.000
PARAONIS LYRA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PARAONIS LYRA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.667
PARAONIS FULGENS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PARAONIS FULGENS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
PARAONIS FULGENS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PARAONIS FULGENS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
PARAPIONOSYLLIS LONGICIRRATA I	0.	0.	46.00	0.	0.	4.000	2.000	0.	0.	0.	15.00	0.	83.00
PARAPIONOSYLLIS LONGICIRRATA II	0.	0.	28.00	0.	2.000	0.	0.	2.000	0.	0.	0.	0.	46.00
PARAPIONOSYLLIS LONGICIRRATA III	0.	0.	28.00	0.	8.000	0.	2.000	0.	0.	0.	0.	0.	74.00
AVERAGE PARAPIONOSYLLIS LONGICIRRATA	0.	0.	34.00	0.	3.333	1.333	1.333	.6667	0.	0.	5.000	0.	67.67
PHERUSA AFFINIS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHERUSA AFFINIS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
PHERUSA AFFINIS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PHERUSA AFFINIS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
PHOLOE MINUTA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	4.000
PHOLOE MINUTA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHOLOE MINUTA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PHOLOE MINUTA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333	1.333
PHYLLODOCE SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
PHYLLODOCE SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	1.000
PHYLLODOCE SP. III	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	3.000
AVERAGE PHYLLODOCE SP.	0.	.3333	0.	0.	0.	0.	0.	0.	0.	.3333	0.	.3333	2.000
PHYLLODOCE ARENAE I	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	4.000
PHYLLODOCE ARENAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	11.00
PHYLLODOCE ARENAE III	0.	0.	0.	0.	0.	1.000	0.	2.000	0.	3.000	0.	0.	9.000
AVERAGE PHYLLODOCE ARENAE	0.	0.	0.	0.	0.	.6667	0.	.6667	0.	1.000	0.	0.	8.000
PHYLLODOCE MACULATA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	3.000
PHYLLODOCE MACULATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
PHYLLODOCE MACULATA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PHYLLODOCE MACULATA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333	1.333

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES	LOCALITY: 21	22	24	25	26	27	28	29	31	32	33	14	TOT
PHYLLODOCE MUCOSA I	8.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	29.00
PHYLLODOCE MUCOSA II	8.000	2.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	29.00
PHYLLODOCE MUCOSA III	4.000	0.	0.	0.	0.	0.	0.	0.	15.00	0.	0.	0.	59.00
AVERAGE PHYLLODOCE MUCOSA	6.667	.6667	0.	0.	0.	0.	0.	0.	5.000	0.	0.	0.	39.00
PHYLLODOCIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
PHYLLODOCIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLLODOCIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PHYLLODOCIDAE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
PISIONE REMOTA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PISIONE REMOTA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	1.000
PISIONE REMOTA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PISIONE REMOTA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333	.3333
POLYDORA SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLYDORA SP. II	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	2.000
POLYDORA SP. III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE POLYDORA SP.	0.	0.	0.	0.	.6667	0.	0.	0.	0.	0.	0.	0.	.6667
POLYDORA COLONIA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLYDORA COLONIA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLYDORA COLONIA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.000	0.	4.000
AVERAGE POLYDORA COLONIA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.333	0.	1.333
POLYDORA COMMENSALIS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLYDORA COMMENSALIS II	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	2.000
POLYDORA COMMENSALIS III	0.	0.	0.	0.	0.	0.	6.000	0.	0.	0.	0.	0.	6.000
AVERAGE POLYDORA COMMENSALIS	0.	0.	0.	0.	0.	0.	2.667	0.	0.	0.	0.	0.	2.667
POLYDORA SOCIALIS I	0.	0.	0.	140.0	0.	0.	0.	0.	0.	0.	0.	0.	172.0
POLYDORA SOCIALIS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	9.000
POLYDORA SOCIALIS III	0.	0.	0.	16.00	0.	1.000	0.	0.	0.	0.	0.	0.	22.00
AVERAGE POLYDORA SOCIALIS	0.	0.	0.	52.00	0.	.3333	0.	0.	0.	0.	0.	.3333	67.67
POTAMILLA NEGLECTA I	7.000	0.	0.	16.00	0.	3.000	0.	0.	0.	0.	0.	0.	36.00
POTAMILLA NEGLECTA II	0.	0.	0.	22.00	0.	0.	0.	0.	0.	0.	0.	0.	24.00
POTAMILLA NEGLECTA III	0.	0.	0.	18.00	0.	11.00	0.	2.000	0.	0.	0.	1.000	42.00
AVERAGE POTAMILLA NEGLECTA	2.333	0.	0.	18.67	0.	4.667	0.	.6667	0.	0.	0.	.3333	34.00
POTAMILLA RENIFORMIS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.000
POTAMILLA RENIFORMIS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POTAMILLA RENIFORMIS III	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	0.	2.000
AVERAGE POTAMILLA RENIFORMIS	0.	0.	0.	.6667	0.	0.	0.	0.	0.	0.	0.	0.	2.333

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY	21	22	24	25	26	27	28	29	31	32	33	14	TOT
PRAXILLELLA SP. I	1.000	1.000	10.000	0.	0.	3.000	12.00	8.000	0.	2.000	3.000	1.000	69.00
PRAXILLELLA SP. II	2.000	0.	0.	2.000	0.	3.000	0.	4.000	0.	2.000	0.	1.000	29.00
PRAXILLELLA SP. III	2.000	0.	88.00	0.	6.000	0.	6.000	12.00	0.	6.000	5.000	2.000	155.0
AVERAGE PRAXILLELLA SP.	1.667	.3333	32.67	.6667	2.000	2.000	6.000	8.000	0.	3.333	2.667	1.333	84.00
PRIONOSPIO HETEROBRANCHIA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PRIONOSPIO HETEROBRANCHIA II	0.	0.	0.	2.000	0.	0.	0.	2.000	0.	0.	0.	0.	4.000
PRIONOSPIO HETEROBRANCHIA III	0.	0.	0.	2.000	0.	0.	0.	8.000	0.	0.	0.	0.	10.000
AVERAGE PRIONOSPIO HETEROBRANCHIA	0.	0.	0.	1.333	0.	0.	0.	3.333	0.	0.	0.	0.	4.667
PROTODORVILLEA KEFERSTEINI I	0.	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	4.000
PROTODORVILLEA KEFERSTEINI II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
PROTODORVILLEA KEFERSTEINI III	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	4.000
AVERAGE PROTODORVILLEA KEFERSTEINI	0.	0.	0.	1.333	0.	0.	0.	.6667	0.	0.	0.	0.	3.000
PROTODORVILLEA MINUTA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
PROTODORVILLEA MINUTA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PROTODORVILLEA MINUTA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
AVERAGE PROTODORVILLEA MINUTA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.333
GLESTIDAE I	0.	0.	28.00	0.	0.	0.	0.	0.	0.	0.	0.	0.	31.00
GLESTIDAE II	0.	0.	60.00	0.	0.	0.	0.	0.	0.	5.000	0.	0.	83.00
GLESTIDAE III	0.	0.	28.00	0.	0.	0.	0.	0.	0.	0.	0.	0.	32.00
AVERAGE GLESTIDAE	0.	0.	38.67	0.	0.	0.	0.	0.	0.	1.667	0.	0.	48.67
SCALIBREGMA INFLATUM I	0.	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	7.000
SCALIBREGMA INFLATUM II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
SCALIBREGMA INFLATUM III	2.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.000
AVERAGE SCALIBREGMA INFLATUM	.6667	0.	0.	1.333	0.	0.	0.	0.	0.	0.	0.	0.	5.333
SCOLELEPIS SQUAMATUS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	8.000
SCOLELEPIS SQUAMATUS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SCOLELEPIS SQUAMATUS III	0.	0.	0.	0.	0.	4.000	0.	0.	0.	0.	0.	0.	4.000
AVERAGE SCOLELEPIS SQUAMATUS	0.	0.	0.	0.	0.	1.333	0.	0.	0.	0.	0.	0.	4.000
SCOLOPLOS ACUTUS I	0.	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	5.000
SCOLOPLOS ACUTUS II	0.	0.	0.	6.000	0.	0.	0.	0.	0.	0.	0.	0.	6.000
SCOLOPLOS ACUTUS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SCOLOPLOS ACUTUS	0.	0.	0.	3.333	0.	0.	0.	0.	0.	0.	0.	0.	3.667
SCOLOPLOS ROBUSTUS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SCOLOPLOS ROBUSTUS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SCOLOPLOS ROBUSTUS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE SCOLOPLOS ROBUSTUS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY:	21	22	24	25	26	27	28	29	31	32	33	14	TOT
SIGALIONE ARENICOLA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.000
SIGALIONE ARENICOLA II	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	3.000	0.	7.000
SIGALIONE ARENICOLA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE SIGALIONE ARENICOLA	0.	0.	0.	0.	.6667	0.	0.	0.	0.	0.	1.000	0.	4.000
SIGALIONIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SIGALIONIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
SIGALIONIDAE III	0.	0.	0.	0.	0.	0.	0.	2.000	0.	10.000	0.	0.	12.00
AVERAGE SIGALIONIDAE	0.	0.	0.	0.	0.	0.	0.	.6667	0.	3.333	0.	0.	4.333
SPHAEROSYLLIS ERINACEUS I	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	11.00
SPHAEROSYLLIS ERINACEUS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.000
SPHAEROSYLLIS ERINACEUS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SPHAEROSYLLIS ERINACEUS	0.	0.	0.	0.	0.	0.	.6667	0.	0.	0.	0.	0.	6.000
SPIONIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SPIONIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	1.000
SPIONIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SPIONIDAE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333	.3333
SPIOPHANES BOMBYX I	583.0	7.000	0.	0.	25.00	214.0	14.00	28.00	3.000	5.000	2.000	257.0	2654.
SPIOPHANES BOMBYX II	438.0	44.00	8.000	16.00	26.00	200.0	4.000	8.000	1.000	17.00	1.000	38.00	1792.
SPIOPHANES BOMBYX III	338.0	10.000	4.000	0.	16.00	562.0	12.00	56.00	446.0	50.00	0.	243.0	2820.
AVERAGE SPIOPHANES BOMBYX	453.0	20.33	4.000	5.333	22.33	325.3	10.000	31.33	150.0	24.00	1.000	179.3	2422.
SPIROBIS SPIRILLUM I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
SPIROBIS SPIRILLUM II	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.000
SPIROBIS SPIRILLUM III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.000
AVERAGE SPIROBIS SPIRILLUM	0.	0.	1.333	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.000
STAURONEREIS CAECUS I	2.000	0.	2.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	13.00
STAURONEREIS CAECUS II	2.000	0.	0.	2.000	0.	1.000	0.	0.	0.	1.000	0.	0.	6.000
STAURONEREIS CAECUS III	0.	0.	12.00	0.	0.	0.	0.	0.	0.	0.	1.000	0.	13.00
AVERAGE STAURONEREIS CAECUS	1.333	0.	4.667	.6667	0.	.3333	0.	0.	0.	.3333	.3333	0.	10.67
STHENELAIS SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
STHENELAIS SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
STHENELAIS SP. III	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	1.000
AVERAGE STHENELAIS SP.	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.	0.	.3333
STHENELAIS BOA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
STHENELAIS BOA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
STHENELAIS BOA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE STHENELAIS BOA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.6667

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY:	21	22	24	25	26	27	28	29	31	32	33	14	TOT
STHENELAIS LIMICOLA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
STHENELAIS LIMICOLA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
STHENELAIS LIMICOLA III	0.	0.	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	6.000
AVERAGE STHENELAIS LIMICOLA	0.	0.	0.	0.	1.333	0.	0.	0.	0.	0.	0.	0.	3.000
STREPTOSYLLIS HYSTRIX I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
STREPTOSYLLIS HYSTRIX II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
STREPTOSYLLIS HYSTRIX III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE STREPTOSYLLIS HYSTRIX	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
STREPTOSYLLIS VARIANS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
STREPTOSYLLIS VARIANS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
STREPTOSYLLIS VARIANS III	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	10.000
AVERAGE STREPTOSYLLIS VARIANS	0.	0.	0.	0.	.6667	0.	0.	0.	0.	0.	0.	0.	3.333
SYLLIDAE I	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	3.000
SYLLIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.000
SYLLIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SYLLIDAE	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.	0.	0.	2.000
SYLLIDES LONGOCIRRATA I	0.	0.	2.000	4.000	0.	0.	4.000	0.	0.	2.000	0.	0.	16.00
SYLLIDES LONGOCIRRATA II	0.	0.	4.000	0.	0.	0.	0.	0.	0.	2.000	0.	0.	15.00
SYLLIDES LONGOCIRRATA III	0.	0.	12.00	2.000	0.	0.	0.	0.	0.	1.000	0.	0.	15.00
AVERAGE SYLLIDES LONGOCIRRATA	0.	0.	6.000	2.000	0.	0.	1.333	0.	0.	1.667	0.	0.	15.33
SYLLIDES SETOSA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SYLLIDES SETOSA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SYLLIDES SETOSA III	0.	0.	0.	0.	8.000	1.000	0.	0.	0.	0.	0.	0.	9.000
AVERAGE SYLLIDES SETOSA	0.	0.	0.	0.	2.667	.3333	0.	0.	0.	0.	0.	0.	3.000
SYLLIS GRACILIS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
SYLLIS GRACILIS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SYLLIS GRACILIS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SYLLIS GRACILIS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
TEREBELLIDAE I	3.000	0.	0.	8.000	0.	0.	0.	0.	0.	0.	0.	2.000	15.00
TEREBELLIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TEREBELLIDAE III	2.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	3.000
AVERAGE TEREBELLIDAE	1.667	0.	0.	2.667	0.	0.	0.	0.	0.	0.	0.	1.000	6.000
TEREBELLIDES STROEMI I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TEREBELLIDES STROEMI II	0.	0.	0.	8.000	0.	0.	0.	0.	0.	0.	0.	0.	9.000
TEREBELLIDES STROEMI III	0.	0.	0.	6.000	0.	0.	0.	2.000	0.	0.	0.	0.	10.000
AVERAGE TEREBELLIDES STROEMI	0.	0.	0.	4.667	0.	0.	0.	.6667	0.	0.	0.	0.	6.333

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TYPE CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES	LOCALITY:	21	22	24	25	26	27	28	29	31	32	33	14	TOT
THARYX SP. I		1.000	1.000	4.000	16.00	0.	0.	0.	22.00	0.	0.	0.	0.	67.00
THARYX SP. II		2.000	38.00	4.000	8.000	8.000	3.000	0.	14.00	0.	2.000	0.	0.	84.00
THARYX SP. III		0.	1.000	0.	2.000	0.	0.	0.	10.000	0.	0.	4.000	0.	46.00
AVERAGE THARYX SP.		1.000	13.33	2.667	8.667	2.667	1.000	0.	15.33	0.	.6667	1.333	0.	65.67
TRAVISIA CARNEA I		0.	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	4.000
TRAVISIA CARNEA II		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TRAVISIA CARNEA III		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE TRAVISIA CARNEA		0.	0.	0.	1.333	0.	0.	0.	0.	0.	0.	0.	0.	1.333
TRICHOBRANCHUS SP. I		0.	0.	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	4.000
TRICHOBRANCHUS SP. II		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TRICHOBRANCHUS SP. III		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE TRICHOBRANCHUS SP.		0.	0.	0.	0.	1.333	0.	0.	0.	0.	0.	0.	0.	1.333
PHYLUM MOLLUSCA I		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLUM MOLLUSCA II		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLUM MOLLUSCA III		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PHYLUM MOLLUSCA		0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.333
CLASS GASTROPODA I		0.	.3333	0.	0.	0.	3.000	0.	0.	0.	0.	0.	0.	3.000
CLASS GASTROPODA II		2.000	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
CLASS GASTROPODA III		0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.000
AVERAGE CLASS GASTROPODA		0.	0.	0.	6.000	0.	0.	0.	0.	0.	0.	0.	0.	2.667
		.6667	.3333	0.	2.000	0.	0.	0.	0.	0.	0.	1.000	0.	8.000
				0.	2.667	0.	0.	0.	0.	0.	0.	0.	0.	9.000
COLUS PUBESCENS I		0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	1.000	7.000
COLUS PUBESCENS II		0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333	0.	.6667	8.000
COLUS PUBESCENS III		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE COLUS PUBESCENS		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
LUNATIA PERRS I		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LUNATIA PERRS II		0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LUNATIA PERRS III		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.6667
AVERAGE LUNATIA PERRS		0.	.3333	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NASSARIUS TRIVITTATUS I		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
NASSARIUS TRIVITTATUS II		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
NASSARIUS TRIVITTATUS III		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.6667
AVERAGE NASSARIUS TRIVITTATUS		0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	1.000
NUDIBRANCHIA I		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NUDIBRANCHIA II		0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	1.000
NUDIBRANCHIA III		0.	0.	0.	0.	0.	0.	0.	.6667	0.	0.	0.	0.	.6667
AVERAGE NUDIBRANCHIA		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
														.6667

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY:	21	22	24	25	26	27	28	29	31	32	33	14	TOT
RETUSA CANALICULATA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
RETUSA CANALICULATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
RETUSA CANALICULATA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
AVERAGE RETUSA CANALICULATA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.6667
SKENEOPSIS PLANORBIS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SKENEOPSIS PLANORBIS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
SKENEOPSIS PLANORBIS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SKENEOPSIS PLANORBIS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
CLASS BIVALVIA I	1.000	0.	0.	12.00	0.	0.	0.	2.000	0.	0.	0.	1.000	18.00
CLASS BIVALVIA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000	6.000
CLASS BIVALVIA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.000	8.000
AVERAGE CLASS BIVALVIA	.3333	0.	0.	4.000	0.	0.	0.	.6667	0.	0.	0.	2.000	10.67
ASTARTE SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ASTARTE SP. II	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	2.000
ASTARTE SP. III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE ASTARTE SP.	0.	0.	0.	0.	0.	0.	0.	.6667	0.	0.	0.	0.	.6667
ASTARTE CASTANEA I	0.	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	6.000
ASTARTE CASTANEA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ASTARTE CASTANEA III	0.	0.	8.000	0.	0.	0.	0.	0.	0.	1.000	0.	0.	9.000
AVERAGE ASTARTE CASTANEA	0.	0.	2.667	1.333	0.	0.	0.	0.	0.	.3333	0.	0.	5.000
ASTARTE LAEVATA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ASTARTE LAEVATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ASTARTE LAEVATA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE ASTARTE LAEVATA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
CERASTODERMA PINNULATUM I	2.000	0.	0.	4.000	1.000	0.	0.	0.	0.	0.	0.	0.	14.00
CERASTODERMA PINNULATUM II	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	8.000
CERASTODERMA PINNULATUM III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.000
AVERAGE CERASTODERMA PINNULATUM	.6667	.3333	0.	1.333	.3333	0.	0.	0.	0.	0.	0.	0.	8.333
CHLAMYS NANA I	0.	0.	0.	12.00	0.	0.	0.	0.	0.	0.	0.	0.	12.00
CHLAMYS NANA II	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	0.	2.000
CHLAMYS NANA III	0.	0.	4.000	12.00	0.	1.000	0.	0.	0.	0.	0.	0.	17.00
AVERAGE CHLAMYS NANA	0.	0.	1.333	8.667	0.	.3333	0.	0.	0.	0.	0.	0.	10.33
CRENELLA GLANDULA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.000
CRENELLA GLANDULA II	0.	2.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.000
CRENELLA GLANDULA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	19.00
AVERAGE CRENELLA GLANDULA	0.	.6667	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	8.667

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TYPE CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES \ LOCALITY:	21	22	24	25	26	27	28	29	31	32	33	14	TOT
ENSIS DIRECTUS I	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	2.000
ENSIS DIRECTUS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	1.000	5.000
ENSIS DIRECTUS III	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	1.000	5.000
AVERAGE ENSIS DIRECTUS	0.	0.	0.	0.	.3333	.6667	0.	0.	0.	.3333	0.	.6667	4.000
TOTAL	141C.	111.0	384.0	380.0	116.0	1019.	66.00	190.0	467.0	112.0	38.00	562.0	9035.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES	LOCALITY: A	B	C	D	E	F	2	4	9	17	18	19	20
LYONSIA HYALINA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LYONSIA HYALINA II	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LYONSIA HYALINA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE LYONSIA HYALINA	.3333	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MACOMA BALTHICA I	0.	0.	6.000	0.	2.000	1.000	0.	0.	0.	0.	0.	0.	2.000
MACOMA BALTHICA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
MACOMA BALTHICA III	0.	0.	15.00	0.	0.	0.	0.	0.	0.	0.	0.	1.000	6.000
AVERAGE MACOMA BALTHICA	0.	0.	7.000	0.	.6667	.3333	0.	0.	0.	0.	0.	.3333	3.000
MICROCARDIUM PERAMABILE I	0.	0.	1.000	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.
MICROCARDIUM PERAMABILE II	1.000	0.	3.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MICROCARDIUM PERAMABILE III	0.	1.000	2.000	2.000	0.	0.	1.000	0.	1.000	0.	0.	0.	0.
AVERAGE MICROCARDIUM PERAMABILE	.3333	.3333	2.000	.6667	0.	0.	.3333	0.	.3333	.6667	0.	0.	0.
NEPTUNEA DECEMCOSTATA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NEPTUNEA DECEMCOSTATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NEPTUNEA DECEMCOSTATA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE NEPTUNEA DECEMCOSTATA	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.
NUCULA SP. I	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NUCULA SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NUCULA SP. III	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE NUCULA SP.	0.	0.	.6667	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NUCULANA TENUISULCATA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NUCULANA TENUISULCATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NUCULANA TENUISULCATA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE NUCULANA TENUISULCATA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NUCULANIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NUCULANIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NUCULANIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE NUCULANIDAE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PERIPLOMA PAPYRATIUM I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PERIPLOMA PAPYRATIUM II	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.
PERIPLOMA PAPYRATIUM III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.
AVERAGE PERIPLOMA PAPYRATIUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333	0.	.3333	0.
PITAR MORRHUANA I	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
PITAR MORRHUANA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PITAR MORRHUANA III	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.	0.	0.
AVERAGE PITAR MORRHUANA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.	0.	0.	0.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TYPE CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY:	A	B	C	D	E	F	G	H	9	17	18	19	20
SPISULA SOLIDISSIMA I	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.
SPISULA SOLIDISSIMA II	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SPISULA SOLIDISSIMA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.
AVERAGE SPISULA SOLIDISSIMA	.3333	0.	0.	0.	0.	0.	0.	.3333	0.	.6667	0.	0.	0.
TELLINA AGILIS I	0.	0.	0.	0.	0.	1.000	1.000	0.	0.	2.000	0.	0.	0.
TELLINA AGILIS II	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.
TELLINA AGILIS III	0.	0.	0.	2.000	0.	0.	1.000	0.	1.000	0.	0.	0.	1.000
AVERAGE TELLINA AGILIS	0.	0.	0.	.6667	0.	.3333	1.000	0.	.3333	.6667	0.	0.	.3333
CLASS PTEROPODA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS PTEROPODA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS PTEROPODA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CLASS PTEROPODA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ACARINA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ACARINA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ACARINA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.000	0.	0.
AVERAGE ACARINA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.333	0.	0.
CLASS PYCNOGONIDA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS PYCNOGONIDA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS PYCNOGONIDA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CLASS PYCNOGONIDA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBCLASS CEPHALOCARIDA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBCLASS CEPHALOCARIDA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBCLASS CEPHALOCARIDA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.
AVERAGE SUBCLASS CEPHALOCARIDA	0.	0.	0.	0.	0.	0.	0.	0.	0.	.6667	0.	0.	0.
SUBCLASS MYSTACOCA I	0.	0.	0.	2.000	0.	1.000	0.	0.	0.	0.	0.	1.000	0.
SUBCLASS MYSTACOCA II	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	1.000
SUBCLASS MYSTACOCA III	3.000	0.	0.	0.	0.	5.000	0.	0.	0.	0.	0.	0.	1.000
AVERAGE SUBCLASS MYSTACOCA	1.000	0.	0.	1.000	0.	2.000	0.	0.	0.	0.	0.	.3333	.6667
SUBCLASS COPEPODA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
SUBCLASS COPEPODA II	0.	0.	0.	1.000	0.	0.	0.	2.000	0.	0.	0.	0.	0.
SUBCLASS COPEPODA III	0.	0.	0.	0.	0.	0.	0.	3.000	0.	0.	10.000	0.	0.
AVERAGE SUBCLASS COPEPODA	0.	0.	0.	.3333	0.	0.	0.	1.667	0.	0.	3.333	0.	.3333
SUBCLASS CIRRIPEDIA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBCLASS CIRRIPEDIA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBCLASS CIRRIPEDIA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SUBCLASS CIRRIPEDIA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY:	A	B	C	D	E	F	2	4	9	17	18	19	20
ORDER CUMACEA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ORDER CUMACEA II	1.000	0.	2.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ORDER CUMACEA III	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE ORDER CUMACEA	.3333	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LEPTOCHELIA SAVIGNYI I	0.	0.	0.	0.	0.	0.	0.	4.000	1.000	0.	0.	0.	0.
LEPTOCHELIA SAVIGNYI II	0.	0.	0.	0.	0.	0.	1.000	1.000	1.000	0.	0.	0.	0.
LEPTOCHELIA SAVIGNYI III	0.	2.000	0.	0.	0.	0.	0.	4.000	3.000	0.	4.000	0.	0.
AVERAGE LEPTOCHELIA SAVIGNYI	0.	.6667	0.	0.	0.	0.	.3333	3.000	1.667	0.	1.333	0.	0.
ANTHORIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ANTHORIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ANTHORIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE ANTHORIDAE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.
												.3333	
CHIRODOTEA ARENICOLA I	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CHIRODOTEA ARENICOLA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CHIRODOTEA ARENICOLA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CHIRODOTEA ARENICOLA	0.	0.	.6667	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CHIRODOTEA TUFTSI I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CHIRODOTEA TUFTSI II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CHIRODOTEA TUFTSI III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CHIRODOTEA TUFTSI	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CIROLANA POLITA I	0.	0.	0.	38.00	0.	0.	0.	0.	5.000	2.000	0.	0.	0.
CIROLANA POLITA II	0.	0.	0.	0.	0.	0.	0.	0.	3.000	0.	0.	0.	0.
CIROLANA POLITA III	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	4.000	0.	0.
AVERAGE CIROLANA POLITA	0.	0.	0.	13.33	0.	0.	0.	0.	2.667	.6667	1.333	0.	0.
CYATHURA POLITA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CYATHURA POLITA II	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CYATHURA POLITA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CYATHURA POLITA	0.	0.	.3333	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
EDOTEA TRILOBA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000	1.000	0.	0.
EDOTEA TRILOBA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
EDOTEA TRILOBA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
AVERAGE EDOTEA TRILOBA	0.	0.	0.	0.	0.	0.	0.	0.	0.	.6667	.3333	0.	1.000
ORDER AMPHIPODA I	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	1.000	0.
ORDER AMPHIPODA II	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
ORDER AMPHIPODA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE ORDER AMPHIPODA	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	.3333	0.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY:	A	B	C	D	E	F	2	8	9	17	18	19	20
AMPELISCA SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.
AMPELISCA SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AMPELISCA SP. III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE AMPELISCA SP.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.6667	0.	0.	0.
AMPELISCA AGASSIZI I	0.	0.	0.	0.	6.000	8.000	0.	0.	0.	0.	0.	1.000	0.
AMPELISCA AGASSIZI II	0.	0.	0.	0.	1.000	0.	1.000	0.	0.	0.	0.	0.	0.
AMPELISCA AGASSIZI III	0.	0.	0.	0.	1.000	3.000	2.000	0.	0.	2.000	0.	0.	0.
AVERAGE AMPELISCA AGASSIZI	0.	0.	0.	0.	2.667	3.667	1.000	0.	0.	.6667	0.	.3333	0.
AMPELISCA VADORUM I	0.	2.000	0.	0.	0.	0.	0.	1.000	3.000	0.	0.	0.	1.000
AMPELISCA VADORUM II	0.	0.	0.	0.	0.	2.000	0.	4.000	8.000	0.	0.	0.	0.
AMPELISCA VADORUM III	0.	0.	2.000	0.	0.	1.000	0.	2.000	2.000	0.	0.	0.	0.
AVERAGE AMPELISCA VADORUM	0.	.6667	.6667	0.	0.	1.000	0.	2.333	4.333	0.	0.	0.	.3333
AMPELISCA VERRILLI I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AMPELISCA VERRILLI II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE AMPELISCA VERRILLI	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AORIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AORIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AORIDAE III	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE AORIDAE	0.	.3333	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
BYBLIS SERRATA I	15.00	0.	0.	0.	0.	1.000	2.000	0.	25.00	4.000	1.000	0.	0.
BYBLIS SERRATA II	3.000	0.	0.	0.	2.000	2.000	3.000	1.000	19.00	0.	2.000	0.	2.000
BYBLIS SERRATA III	1.000	0.	1.000	0.	0.	0.	3.000	0.	1.000	0.	0.	0.	1.000
AVERAGE BYBLIS SERRATA	7.667	0.	.3333	0.	.6667	1.000	2.667	.3333	15.00	1.333	1.000	0.	1.000
CORBRIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	1.000
CORBRIDAE II	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.	1.000	0.	0.
CORBRIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE CORBRIDAE	0.	0.	0.	0.	0.	0.	0.	.6667	.3333	0.	.3333	0.	.6667
HARPINIA PROPINQUA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HARPINIA PROPINQUA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HARPINIA PROPINQUA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.000	0.	0.
AVERAGE HARPINIA PROPINQUA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.333	0.	0.
HALSTORIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	4.000	0.	0.	0.	0.
HALSTORIDAE II	6.000	0.	0.	7.000	0.	0.	2.000	0.	5.000	2.000	0.	0.	1.000
HALSTORIDAE III	0.	2.000	0.	2.000	0.	0.	1.000	0.	0.	0.	0.	1.000	0.
AVERAGE HALSTORIDAE	2.000	.6667	0.	3.000	0.	0.	1.000	0.	3.000	.6667	0.	.3333	.3333

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY:	A	B	C	D	E	F	2	3	9	17	18	19	20
HIPPOMEDON SERRATUS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HIPPOMEDON SERRATUS II	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HIPPOMEDON SERRATUS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE HIPPOMEDON SERRATUS	.3333	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HYALIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HYALIDAE II	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HYALIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE HYALIDAE	0.	0.	.3333	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ISCHYROCERIDAE I	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.
ISCHYROCERIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ISCHYROCERIDAE III	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
AVERAGE ISCHYROCERIDAE	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
LEPTOCHEIRUS PINGUIS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.000
LEPTOCHEIRUS PINGUIS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
LEPTOCHEIRUS PINGUIS III	6.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE LEPTOCHEIRUS PINGUIS	2.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.333
PARAPHOXUS SPINOSUS I	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	0.
PARAPHOXUS SPINOSUS II	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PARAPHOXUS SPINOSUS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PARAPHOXUS SPINOSUS	0.	0.	.3333	0.	.6667	0.	0.	0.	0.	0.	0.	0.	0.
PHOXOCEPHALUS HOLBOLI I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHOXOCEPHALUS HOLBOLI II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHOXOCEPHALUS HOLBOLI III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PHOXOCEPHALUS HOLBOLI	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PLEUSTIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PLEUSTIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	8.000
PLEUSTIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PLEUSTIDAE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.667
PODOCERIDAE I	15.00	0.	0.	0.	0.	0.	1.000	0.	27.00	0.	6.000	0.	2.000
PODOCERIDAE II	6.000	0.	0.	0.	0.	0.	0.	0.	29.00	2.000	0.	0.	0.
PODOCERIDAE III	11.00	0.	1.000	0.	0.	0.	0.	0.	16.00	0.	0.	1.000	0.
AVERAGE PODOCERIDAE	10.67	0.	.3333	0.	0.	0.	.3333	0.	24.00	.6667	2.000	.3333	.6667
TRICHOPHOXUS EPISTOMUS I	8.000	4.000	9.000	0.	0.	5.000	9.000	0.	12.00	0.	3.000	4.000	2.000
TRICHOPHOXUS EPISTOMUS II	1.000	1.000	3.000	2.000	1.000	1.000	7.000	1.000	2.000	2.000	0.	3.000	11.00
TRICHOPHOXUS EPISTOMUS III	6.000	6.000	3.000	6.000	0.	3.000	4.000	1.000	1.000	2.000	0.	8.000	11.00
AVERAGE TRICHOPHOXUS EPISTOMUS	5.000	3.667	5.000	2.667	.3333	3.000	6.667	.6667	5.000	1.333	1.000	5.000	8.000

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER C.O4 SQUARE METERS

SPECIES / LOCALITY:	A	B	C	D	E	F	2	8	9	17	18	19	20
LACIBLA SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.
LACIBLA SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LACIBLA SP. III	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE LACIBLA SP.	0.	0.	0.	0.	.3333	0.	0.	0.	0.	.6667	0.	0.	0.
LACIBLA IRRORATA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LACIBLA IRRORATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000	0.	1.000
LACIBLA IRRORATA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	6.000	0.	1.000
AVERAGE LACIBLA IRRORATA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.667	0.	.6667
LACIBLA SERRATA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LACIBLA SERRATA II	0.	2.000	2.000	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.
LACIBLA SERRATA III	0.	0.	0.	0.	0.	0.	1.000	0.	0.	4.000	0.	0.	0.
AVERAGE LACIBLA SERRATA	0.	.6667	.6667	0.	0.	0.	.6667	0.	0.	1.333	0.	0.	0.
ORDER DECAPODA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ORDER DECAPODA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ORDER DECAPODA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE ORDER DECAPODA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CANCER SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CANCER SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CANCER SP. III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CANCER SP.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CANCER BOREALIS I	0.	0.	0.	0.	0.	0.	0.	1.000	3.000	0.	0.	0.	0.
CANCER BOREALIS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CANCER BOREALIS III	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.
AVERAGE CANCER BOREALIS	0.	0.	0.	0.	0.	0.	0.	.6667	1.000	0.	0.	0.	0.
CANCER IRRORATUS I	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.
CANCER IRRORATUS II	0.	0.	1.000	0.	1.000	0.	0.	0.	0.	0.	0.	1.000	0.
CANCER IRRORATUS III	1.000	3.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CANCER IRRORATUS	.3333	1.000	.3333	0.	.3333	0.	.3333	0.	0.	0.	0.	.3333	0.
PHERONIS ARCHITECTA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
PHERONIS ARCHITECTA II	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	1.000	0.	1.000
PHERONIS ARCHITECTA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PHERONIS ARCHITECTA	0.	0.	0.	0.	.6667	0.	0.	0.	0.	0.	.3333	0.	.6667
CLASS ASTEROIDEA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	1.000	0.
CLASS ASTEROIDEA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS ASTEROIDEA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CLASS ASTEROIDEA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333	.3333	0.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES \ LOCALITY:	A	B	C	D	E	F	2	4	9	17	18	19	20
CLASS OPHIUROIDEA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS OPHIUROIDEA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS OPHIUROIDEA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.
AVERAGE CLASS OPHIUROIDEA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333	0.
AMPHIPHOLIS SQUAMATA I	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
AMPHIPHOLIS SQUAMATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AMPHIPHOLIS SQUAMATA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE AMPHIPHOLIS SQUAMATA	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.	0.	0.	0.
CLASS ECHINOIDEA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS ECHINOIDEA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS ECHINOIDEA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CLASS ECHINOIDEA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ARBACIA PUNCTULATA I	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ARBACIA PUNCTULATA II	0.	0.	0.	1.000	0.	0.	2.000	0.	0.	0.	0.	0.	0.
ARBACIA PUNCTULATA III	0.	0.	1.000	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.
AVERAGE ARBACIA PUNCTULATA	0.	0.	.6667	.3333	0.	0.	1.000	0.	0.	0.	0.	0.	0.
ECHINARACHNIUS PARMA I	0.	1.000	0.	0.	0.	0.	1.000	0.	0.	0.	8.000	8.000	5.000
ECHINARACHNIUS PARMA II	0.	0.	1.000	6.000	2.000	1.000	3.000	0.	0.	0.	3.000	5.000	2.000
ECHINARACHNIUS PARMA III	2.000	0.	2.000	6.000	0.	2.000	0.	0.	0.	14.00	0.	10.000	5.000
AVERAGE ECHINARACHNIUS PARMA	.6667	.3333	1.000	4.000	.6667	1.000	1.333	0.	0.	4.667	3.667	7.667	4.000
CLASS HOLOTHUROIDEA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS HOLOTHUROIDEA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS HOLOTHUROIDEA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CLASS HOLOTHUROIDEA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS ASCIDACEA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS ASCIDACEA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS ASCIDACEA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CLASS ASCIDACEA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLUM CHAETOGNATHA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLUM CHAETOGNATHA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLUM CHAETOGNATHA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PHYLUM CHAETOGNATHA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLUM SIPUNCULIDA I	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
PHYLUM SIPUNCULIDA II	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.
PHYLUM SIPUNCULIDA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PHYLUM SIPUNCULIDA	0.	0.	0.	0.	0.	.6667	0.	0.	0.	0.	0.	0.	0.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TYPE CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES	LOCALITY:	A	B	C	D	E	F	2	4	9	17	18	19	20
TOTAL		93.00	25.00	64.00	81.00	23.00	44.00	51.00	29.00	173.0	48.00	62.00	48.00	81.00

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY	21	22	24	25	26	27	28	29	31	32	33	14	TOT
LYONSIA HYALINA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LYONSIA HYALINA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
LYONSIA HYALINA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE LYONSIA HYALINA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
MACOMA BALTHICA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	11.00
MACOMA BALTHICA II	0.	9.000	12.00	0.	0.	0.	0.	0.	0.	0.	0.	0.	22.00
MACOMA BALTHICA III	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	26.00
AVERAGE MACOMA BALTHICA	0.	3.000	5.333	0.	0.	0.	0.	0.	0.	0.	0.	0.	19.67
MICROCARDIUM PERAMABILE I	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.000
MICROCARDIUM PERAMABILE II	2.000	0.	0.	0.	0.	4.000	0.	4.000	0.	0.	0.	0.	14.00
MICROCARDIUM PERAMABILE III	2.000	0.	0.	2.000	0.	2.000	0.	0.	1.000	0.	0.	0.	14.00
AVERAGE MICROCARDIUM PERAMABILE	1.333	0.	.6667	.6667	0.	2.000	0.	1.333	.3333	0.	0.	0.	11.00
NEPTUNEA DECEMCOSTATA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NEPTUNEA DECEMCOSTATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NEPTUNEA DECEMCOSTATA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE NEPTUNEA DECEMCOSTATA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
NUCULA SP. I	0.	0.	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.	3.000
NUCULA SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NUCULA SP. III	0.	0.	0.	0.	0.	0.	0.	0.	13.00	0.	0.	0.	14.00
AVERAGE NUCULA SP.	0.	0.	0.	0.	0.	0.	0.	0.	5.000	0.	0.	0.	5.667
NUCULANA TENUISULCATA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NUCULANA TENUISULCATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NUCULANA TENUISULCATA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE NUCULANA TENUISULCATA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
NUCULANIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NUCULANIDAE II	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.000
NUCULANIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	1.000	0.	3.000
AVERAGE NUCULANIDAE	0.	0.	1.333	0.	0.	0.	0.	0.	0.	.3333	.3333	0.	2.667
PERIPLOMA PAPYRATILM I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PERIPLOMA PAPYRATILM II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
PERIPLOMA PAPYRATILM III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PERIPLOMA PAPYRATIUM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
PITAR PROMBULANA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PITAR PROMBULANA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
PITAR PROMBULANA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PITAR PROMBULANA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TYPE CODE 1 AUGUST 1970

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES	LOCALITY: 21	22	24	25	26	27	28	29	31	32	33	14	TOT
SPISULA SOLIDISSIMA I	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	2.000
SPISULA SOLIDISSIMA II	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	3.000
SPISULA SOLIDISSIMA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	3.000
AVERAGE SPISULA SOLIDISSIMA	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	.3333	0.	2.667
TELLINA AGILIS I	2.000	0.	0.	0.	0.	0.	0.	0.	1.000	2.000	0.	0.	9.000
TELLINA AGILIS II	0.	0.	0.	2.000	0.	0.	0.	2.000	1.000	0.	0.	0.	6.000
TELLINA AGILIS III	0.	0.	0.	0.	0.	0.	0.	0.	11.00	4.000	0.	0.	20.00
AVERAGE TELLINA AGILIS	.6667	0.	0.	.6667	0.	0.	0.	.6667	4.333	2.000	0.	0.	11.67
CLASS PTEROPODA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS PTEROPODA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS PTEROPODA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CLASS PTEROPODA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ACARINA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ACARINA II	2.000	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	4.000
ACARINA III	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	6.000
AVERAGE ACARINA	.6667	0.	0.	0.	.6667	0.	.6667	0.	0.	0.	0.	0.	3.333
CLASS PYCNOGONIDA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS PYCNOGONIDA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS PYCNOGONIDA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CLASS PYCNOGONIDA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBCLASS CEPHALOCARIDA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBCLASS CEPHALOCARIDA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBCLASS CEPHALOCARIDA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
AVERAGE SUBCLASS CEPHALOCARIDA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.6667
SUBCLASS OSTRACODA I	0.	0.	2.000	0.	0.	0.	0.	0.	1.000	0.	0.	0.	7.000
SUBCLASS OSTRACODA II	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	6.000
SUBCLASS OSTRACODA III	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	10.000
AVERAGE SUBCLASS OSTRACODA	0.	0.	2.000	0.	0.	0.	0.	0.	.6667	0.	0.	0.	7.667
SUBCLASS COPEPODA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
SUBCLASS COPEPODA II	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.000
SUBCLASS COPEPODA III	0.	0.	8.000	0.	0.	0.	0.	0.	0.	1.000	0.	0.	22.00
AVERAGE SUBCLASS COPEPODA	0.	0.	4.000	0.	0.	0.	0.	0.	0.	.3333	0.	0.	10.000
SUBCLASS CIRRIPEDIA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBCLASS CIRRIPEDIA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SUBCLASS CIRRIPEDIA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE SUBCLASS CIRRIPEDIA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES	LOCALITY: 21	22	24	25	26	27	28	29	31	32	33	14	TOT
ORDER CUMACEA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ORDER CUMACEA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.000
ORDER CUMACEA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE ORDER CUMACEA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.333
LEPTOCHELIA SAVIGNYI I	0.	0.	0.	8.000	0.	2.000	0.	2.000	0.	0.	0.	0.	17.00
LEPTOCHELIA SAVIGNYI II	0.	0.	8.000	0.	0.	0.	8.000	2.000	1.000	0.	3.000	0.	25.00
LEPTOCHELIA SAVIGNYI III	2.000	1.000	4.000	2.000	2.000	3.000	0.	4.000	0.	25.00	0.	0.	54.00
AVERAGE LEPTOCHELIA SAVIGNYI	.6667	.3333	4.000	3.333	.6667	1.667	2.667	2.667	.3333	8.333	1.000	0.	32.67
ANTHURIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ANTHURIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ANTHURIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE ANTHURIDAE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
CHIRODOTEA ARENICOLA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	3.000
CHIRODOTEA ARENICOLA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CHIRODOTEA ARENICOLA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CHIRODOTEA ARENICOLA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333	0.	1.000
CHIRODOTEA TUFTSI I	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	1.000
CHIRODOTEA TUFTSI II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	1.000
CHIRODOTEA TUFTSI III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CHIRODOTEA TUFTSI	0.	0.	0.	0.	0.	.3333	0.	0.	0.	0.	.3333	0.	.6667
CIROLANA POLITA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.000	48.00
CIROLANA POLITA II	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	3.000
CIROLANA POLITA III	0.	0.	0.	0.	0.	0.	.6667	0.	0.	0.	0.	0.	8.000
AVERAGE CIROLANA POLITA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	19.67
CYATHURA POLITA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CYATHURA POLITA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
CYATHURA POLITA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CYATHURA POLITA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
EDOTEA TRILOBA I	0.	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	7.000
EDOTEA TRILOBA II	2.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.000
EDOTEA TRILOBA III	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	1.000	4.000
AVERAGE EDOTEA TRILOBA	.6667	0.	0.	1.333	0.	.3333	0.	0.	0.	0.	0.	.3333	4.667
ORDER AMPHIPODA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.000
ORDER AMPHIPODA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	2.000
ORDER AMPHIPODA III	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	1.000
AVERAGE ORDER AMPHIPODA	0.	0.	0.	0.	0.	.3333	0.	0.	0.	.3333	0.	0.	2.000

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TYPE CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER O.1 SQUARE METERS

SPECIES \ LOCALITY	21	22	24	25	26	27	28	29	31	32	33	14	TOT
AMPELISCA SP. I	0.	0.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	6.000
AMPELISCA SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AMPELISCA SP. III	0.	1.000	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	2.000
AVERAGE AMPELISCA SP.	0.	1.667	0.	0.	0.	0.	0.	0.	.3333	0.	0.	0.	2.667
AMPELISCA AGASSIZI I	0.	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	19.00
AMPELISCA AGASSIZI II	6.000	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	9.000
AMPELISCA AGASSIZI III	6.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	14.00
AVERAGE AMPELISCA AGASSIZI	4.000	.3333	0.	1.333	0.	0.	0.	0.	0.	0.	0.	0.	14.00
AMPELISCA VADORUM I	0.	0.	8.000	0.	0.	0.	0.	0.	0.	0.	0.	10.000	25.00
AMPELISCA VADORUM II	0.	0.	4.000	6.000	0.	1.000	0.	0.	0.	0.	0.	0.	25.00
AMPELISCA VADORUM III	0.	0.	4.000	2.000	0.	0.	0.	0.	0.	0.	0.	2.000	15.00
AVERAGE AMPELISCA VADORUM	0.	0.	5.333	2.667	0.	.3333	0.	0.	0.	0.	0.	4.000	21.67
AMPELISCA VERRILLI I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AMPELISCA VERRILLI II	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	1.000
AVERAGE AMPELISCA VERRILLI	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333	0.	0.	.3333
AGRICAE I	0.	0.	0.	24.00	0.	0.	0.	0.	0.	0.	0.	0.	24.00
AGRICAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AGRICAE III	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	2.000	0.	4.000
AVERAGE AGRICAE	0.	.3333	0.	8.000	0.	0.	0.	0.	0.	0.	.6667	0.	9.333
BYBLIS SERRATA I	3.000	0.	0.	0.	3.000	0.	2.000	6.000	0.	0.	0.	1.000	67.00
BYBLIS SERRATA II	0.	1.000	0.	0.	0.	0.	2.000	4.000	0.	7.000	0.	0.	48.00
BYBLIS SERRATA III	0.	25.00	0.	0.	0.	4.000	2.000	8.000	0.	1.000	0.	0.	47.00
AVERAGE BYBLIS SERRATA	1.000	8.667	0.	0.	1.000	1.333	2.000	6.000	0.	2.667	0.	.3333	54.00
CORAPHIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
CORAPHIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.000
CORAPHIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE CORAPHIDAE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
HARPINIA PROPINGUA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HARPINIA PROPINGUA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HARPINIA PROPINGUA III	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.000
AVERAGE HARPINIA PROPINGUA	0.	.3333	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.667
HALSTERIDAE I	3.000	0.	0.	0.	2.000	1.000	0.	0.	8.000	4.000	0.	3.000	25.00
HALSTERIDAE II	0.	0.	0.	0.	4.000	0.	2.000	0.	7.000	0.	6.000	4.000	46.00
HALSTERIDAE III	0.	0.	0.	0.	6.000	1.000	2.000	2.000	1.000	0.	0.	1.000	19.00
AVERAGE HALSTERIDAE	1.000	0.	0.	0.	4.000	.6667	1.333	.6667	5.333	1.333	2.000	2.667	30.00

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION.

BENTHIC STUDY TYPE CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES / LOCALITY:	21	22	24	25	26	27	28	29	31	32	33	14	TOT
HIPPOMEDON SERRATUS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HIPPOMEDON SERRATUS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
HIPPOMEDON SERRATUS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE HIPPOMEDON SERRATUS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
HYALIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
HYALIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
HYALIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE HYALIDAE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
ISCHYROCERIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
ISCHYROCERIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ISCHYROCERIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE ISCHYROCERIDAE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
LEPTOCHEIRUS PINGUIS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.000
LEPTOCHEIRUS PINGUIS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
LEPTOCHEIRUS PINGUIS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.000
AVERAGE LEPTOCHEIRUS PINGUIS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.333
PARAPHOXUS SPINOSUS I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
PARAPHOXUS SPINOSUS II	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
PARAPHOXUS SPINOSUS III	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE PARAPHOXUS SPINOSUS	0.	.6667	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.667
PHOXOCEPHALUS HOLBOLLI I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHOXOCEPHALUS HOLBOLLI II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHOXOCEPHALUS HOLBOLLI III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PHOXOCEPHALUS HOLBOLLI	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PLEUSTIDAE I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PLEUSTIDAE II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	8.000
PLEUSTIDAE III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PLEUSTIDAE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.667
PROTOMEDEIDAE I	0.	0.	0.	0.	0.	0.	0.	4.000	0.	108.0	2.000	0.	165.0
PROTOMEDEIDAE II	0.	0.	0.	2.000	0.	0.	8.000	2.000	0.	1.000	0.	0.	50.00
PROTOMEDEIDAE III	0.	0.	0.	4.000	0.	0.	0.	4.000	0.	0.	1.000	0.	38.00
AVERAGE PROTOMEDEIDAE	0.	0.	0.	2.000	0.	0.	2.667	3.333	0.	36.33	1.000	0.	84.33
TRICHOPHOXUS EPISTOMUS I	5.000	6.000	0.	0.	3.000	1.000	4.000	2.000	4.000	10.000	0.	10.000	101.0
TRICHOPHOXUS EPISTOMUS II	6.000	2.000	0.	0.	0.	3.000	2.000	4.000	3.000	0.	7.000	6.000	68.00
TRICHOPHOXUS EPISTOMUS III	0.	6.000	0.	2.000	10.000	2.000	0.	8.000	5.000	2.000	1.000	9.000	96.00
AVERAGE TRICHOPHOXUS EPISTOMUS	3.667	4.667	0.	.6667	4.333	2.000	2.000	4.667	4.000	4.000	2.667	8.333	88.33

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TIME CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER 0.04 SQUARE METERS

SPECIES	LOCALITY: 21	22	24	25	26	27	28	29	31	32	33	14	TBT
LACIBLA SP. I	0.	0.	0.	0.	0.	0.	2.000	0.	0.	0.	0.	0.	4.000
LACIBLA SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LACIBLA SP. III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE LACIBLA SP.	0.	0.	0.	0.	0.	0.	.6667	0.	0.	0.	0.	0.	1.667
LACIBLA IRRORATA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LACIBLA IRRORATA II	0.	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.000
LACIBLA IRRORATA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.000
AVERAGE LACIBLA IRRORATA	0.	.3333	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.667
LACIBLA SERRATA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LACIBLA SERRATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.000
LACIBLA SERRATA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.000
AVERAGE LACIBLA SERRATA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.333
ORDER DECAPODA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ORDER DECAPODA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ORDER DECAPODA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE ORDER DECAPODA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CANCER SP. I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CANCER SP. II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CANCER SP. III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CANCER SP.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CANCER BOREALIS I	0.	0.	0.	0.	1.000	0.	0.	0.	0.	0.	0.	0.	5.000
CANCER BOREALIS II	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	1.000
CANCER BOREALIS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AVERAGE CANCER BOREALIS	0.	0.	0.	0.	.3333	0.	0.	0.	0.	.3333	0.	0.	2.333
CANCER IRRORATUS I	0.	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	5.000
CANCER IRRORATUS II	2.000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.000
CANCER IRRORATUS III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	5.000
AVERAGE CANCER IRRORATUS	.6667	0.	0.	1.333	0.	0.	0.	0.	0.	0.	.3333	0.	5.000
PHOROIS ARCHITECTA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000	0.	0.	2.000
PHOROIS ARCHITECTA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.000
PHOROIS ARCHITECTA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PHOROIS ARCHITECTA	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333	0.	0.	2.000
CLASS ASTEROIDEA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.000
CLASS ASTEROIDEA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS ASTEROIDEA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CLASS ASTEROIDEA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.6667

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TYPE CODE 1 AUGUST 1974

DENSITIES IN NUMBER OF ORGANISMS PER C.O. SQUARE METERS

SPECIES / LOCALITY	21	22	24	25	26	27	28	29	31	32	33	14	TOT
CLASS OPHIUROIDEA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS OPHIUROIDEA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS OPHIUROIDEA III	0.	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	0.	3.000
AVERAGE CLASS OPHIUROIDEA	0.	0.	0.	.6667	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AMPHIPHOLIS SQUAMATA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
AMPHIPHOLIS SQUAMATA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AMPHIPHOLIS SQUAMATA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE AMPHIPHOLIS SQUAMATA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.3333
CLASS ECHINOIDEA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS ECHINOIDEA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS ECHINOIDEA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CLASS ECHINOIDEA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ARBACIA PUNCTULATA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
ARBACIA PUNCTULATA II	0.	0.	0.	0.	0.	5.000	0.	0.	0.	0.	0.	0.	8.000
ARBACIA PUNCTULATA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.000	5.000
AVERAGE ARBACIA PUNCTULATA	0.	0.	0.	0.	0.	1.667	0.	0.	0.	0.	0.	1.000	4.667
ECHINARACHNIUS PARMA I	5.000	1.000	0.	0.	1.000	0.	4.000	0.	0.	1.000	0.	1.000	36.00
ECHINARACHNIUS PARMA II	2.000	1.000	0.	0.	2.000	0.	0.	0.	0.	0.	0.	0.	28.00
ECHINARACHNIUS PARMA III	0.	0.	0.	0.	10.000	1.000	0.	0.	0.	0.	0.	0.	52.00
AVERAGE ECHINARACHNIUS PARMA	2.333	.6667	0.	0.	4.333	.3333	1.333	0.	0.	.3333	0.	.3333	38.67
CLASS HOLOTHUROIDEA I	0.	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	4.000
CLASS HOLOTHUROIDEA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS HOLOTHUROIDEA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CLASS HOLOTHUROIDEA	0.	0.	0.	1.333	0.	0.	0.	0.	0.	0.	0.	0.	1.333
CLASS ASCIDACEA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS ASCIDACEA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CLASS ASCIDACEA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE CLASS ASCIDACEA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLUM CHAETOGNATHA I	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLUM CHAETOGNATHA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLUM CHAETOGNATHA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PHYLUM CHAETOGNATHA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PHYLUM SIPUNCULICA I	0.	0.	0.	4.000	0.	0.	0.	0.	0.	0.	0.	0.	5.000
PHYLUM SIPUNCULICA II	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.000
PHYLUM SIPUNCULICA III	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AVERAGE PHYLUM SIPUNCULICA	0.	0.	0.	1.333	0.	0.	0.	0.	0.	0.	0.	0.	2.000

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

BENTHIC STUDY TYPE CODE 1 AUGUST 1974

LARVAE

DENSITIES IN NUMBER OF PLANKTON PER HUNDRED CUBIC METERS

LOCALITY:	21	22	24	25	26	27	28	29	31	32	33	14	TST
TOTAL	50.00	63.00	68.00	76.00	49.00	33.00	42.00	58.00	61.00	171.0	27.00	54.00	1574.

ROMAN NUMERALS DESIGNATE REPLICATE GRABS AT A STATION

Table IV

Dominanant Species of Deep Six

Rank	Species	No.	Feeding type
1.	Spiophanes bombyx	7,266	DF
2.	Protodrilus sp	6,527	DF
3.	Aglaophamus circinata	710	C
4.	Exogone hebes	405	O
5.	Trichophoxus epistomus	265	DF
6.	Goniadella gracilis	237	C
7.	Parapionosyllis longicirrata	203	O
8.	Polydora socialis	203	DF
9.	Eyblis serrata	162	DF
10.	Phyllodoce mucosa	117	C
11.	Echinarachnius parma	116	O
12.	Pomamilla neglecta	102	SF
13.	Aglaophamus verrilli	99	O
14.	Leptochelia savignyi	98	DF
15.	Lumbrineries acuta	96	DF
16.	Harmothoe extenuata	91	C
17.	Lumbrinereis impatiens	84	DF
18.	Ampharete sp.	81	DF
19.	Glycera capitata	73	C
20.	Ampelisca vadorum	65	DF
21.	Cirolana polita	60	C

DF= deposit feeder
O= omnivore
C= carnivore
SF= suspension feeder

Table V

Species List of Benthic
Invertebrates from Operations
Quicksilver (QK), Fetch (Fe),
Ides (I) and Deep Six (DS)

Table V

Species List of Benthic Invertebrates from
Operations Quicksilver (QK), Fetch (Fe), IDES (I), and Deep Six (DS)

	Projects
Phylum Cnidaria	
Class Hydrozoa (unidentified)	(DS)
Order Hydroida	
Family Bougainvillidae	
Bougainvillia superciliaris Agassiz	(Fe)
Family Campanulariidae	
Campanularia hincksi (Alder)	(Fe)
Campanularia neglecta (Alder)	(QK)
Family Sertulariidae	
Sertularia argentea (Linne)	(QK, Fe)
Class Anthozoa	
Order Ceriantharia	
Family Cerianthidae	
Cerianthus americanus (Verrill)	(I, DS)
Edwardsiidae	(DS)
Phylum Rhynchocoela	
Class Anopla	
Order Heteronemertini	
Family Lineidae	
Cerebratulus lacteus (Leidy)	(I)
Nemertea spp.	(QK, Fe, I, DS)
Phylum Annelida	
Class Archiannelida	
Family Polygoniidae	
Polygordius sp.	(Fe, I)
Protodrilus sp.	(DS)
Class Polychaeta	
Family Ampharetidae	
Ampharete acutifrons Grube	(I, DS)
Asabellides oculatus (Webster)	(I, Fe)
Asabellides sp.	(Fe)
Family Arabellidae	
Arabella iricolor (Montagu)	(I)
Drilonereis longa Webster	(Fe, I, DS)
Drilonereis sp. cf. *D. magna* Webster & Benedict	(Fe)
Notocirrus spiniferus	(DS)

Table . Continued.

	Projects
Family Capitellidae	
Capitella capitata	(DS)
Mediomastus ambiseta (Hartman)	(I, DS)
Notomastus latericeus Sars	(I, DS)
Family Cirratulidae	
Caulleriella sp. 1	(Fe, I)
Caulleriella sp. 2	(Fe, I)
Chaetozone setosa Malmgren	(Fe, I, DS)
Chaetozone sp.	(DS)
Chaetozone sp. 1	(QK, Fe, I)
Cirratulidae	
Tharyx sp. 1	(QK, Fe, I, DS)
Tharyx sp. 2	(Fe, I)
Tharyx sp. 3	(Fe, I)
Family Chrysopetdidae	
Dysponetus pygmaeus	(DS)
Family Dorvilleidae	
Protodorvillea kerfesteini	(DS)
Protodorvillea gaspeensis Pettibone	(I)
Schistomeringos rudolphi (delle Chiaje)	(QK, Fe, I)
Schistomeringos caeca (Webster & Benedict)	(I)
Stauronereis caecus	(DS)
Family Eunicidae	
Marphysa bellii (Audouis & Milne-Edwards)	(QK, I, DS)
Family Flabelligeridae	
Pherusa affinis (Leidy)	(Fe, DS)
Family Glyceridae	
Glycera capitata Oersted	(Fe, I, DS)
Glycera dibranchiata Ehlers	(QK, Fe, I, DS)
Family Goniadidae	
Glycinde solitaria (Webster)	(I)
Goniadella gracilis (Verrill)	(QK, Fe, I, DS)
Goniadidae	(DS)
Family Lumbrinereidae	
Lumbrinereidae	(DS)
Lumbrineris sp.	(Fe, DS)
Lumbrineris acuta (Verrill)	(QK, Fe, I, DS)
Lumbrineris coccinea (Renier)	(Fe, I)
Lumbrineris fragilis (O.F. Muller)	(Fe, I, DS)
Lumbrineris impatiens (Claparede)	(I, DS)
Lumbrineris latreilli (Audouin & Milne-Edwards)	(Fe, I)
Lumbrineris tenuis (Verrill)	(Fe, I, DS)
Family Hesionidae	
Microphthalmus sp.	(DS)
Family Magelonidae	
Magelona sp. 3	(Fe)
Family Maldanidae	
Axiothella mucosa (Andrews)	(Fe, I)
Clymenella spp.	(Fe, DS)

Table . Continued.

	Projects
Family Maldanidae (Cont.)	
Clymenella torquata (Leidy)	(QK, Fe, I, DS)
Clymenella zonalis (Verrill)	(Fe, I)
Clymenura borealis (Arwidsson)	(I)
Euclymene sp. 1	(I)
Praxillella sp. cr. praetermissa (Malmgren)	(I)
Praxillella sp. 2	(I)
Praxillella sp. 3	(I)
Maldanidae sp.	(Fe, I, DS)
Family Nephtyidae	
Aglaophamus circinata (Verrill)	(QK, Fe, I, DS)
Aglaophamus (Verrill)	(DS)
Nephtys bucera Ehlers	(Fe, I, DS)
Nephtys incisa Malmgren	(Fe, I)
Nephtys picta Ehlers	(QK, Fe, I, DS)
Family Nereidae	
Nereis gravi Pettibone	(Fe, I, DS)
Nereis succinea Frey & Leuckart	(I, DS)
Family Onuphidae	
Hyalinoecia tubicola	(DS)
Onuphis opalina (Verrill)	(I, DS)
Onuphis sp. cf. O. pallidula (Hartman)	(I)
Family Opheliidae	
Amotrypane aulogaster	(DS)
Ophelia sp.	(DS)
Ophelia bicornis Savigny	(I)
Ophelia denticulata Verrill	(Fe, I)
Opheliidae	(DS)
Ophelina cylindricaudata (Hansen)	(I)
Travisia carnea	(DS)
Family Orbiniidae	
Orbinia ornatus (Verrill)	(Fe)
Orbinia swani Pettibone	(I)
Orbiniidae	(DS)
Scoloplos acutus (Verrill)	(I, DS)
Scoloplos armiger (O.F. Muller)	(I)
Scoloplos fragilis (Verrill)	(Fe, DS)
Family Owenidae	
Myriochele sp.	(DS)
Myriowenia sp. 1	(I)
Family Paraonidae	
Aricidea cerruti Laubier	(QK, Fe, I)
Aricidea belgicae	(DS)
A. jeffreysii	(DS)
A. neosuecica	(DS)
Aricidea sp. cf. suecica Ellison	(Fe, I, DS)

Table . Continued.

	Projects
Family Paraonidae (Cont.)	
Aricidea wassi Pettibone	(QK, Fe, I, DS)
Aricidea sp.	(QK, Fe, I, DS)
Cirrophorrus lyriformis (Annenkova)	(I, DS)
P. fulgens	(DS)
Paraonis gracilis	(DS)
Paraonis lyra Southern	(Fe, I, DS)
Family Phyllodocidae	
Eteone flava (Fabricius)	(I)
Eteone heteropoda Hartman	(QK)
Eteone lactea Claparede	(QK)
Eteone trilineata Webster & Benedict	(I)
Eulalia bilineata (Johnston)	(I)
Eumida sarquinea	(DS)
Paranaitis speciosa (Webster)	(I)
Phyllodoce sp.	(DS)
Phyllodoce arenae Webster	(I, DS)
Phyllodoce maculata (Linne)	(Fe, I, DS)
Phyllodoce mucosa Oersted	(Fe, DS)
Phyllodocidae	
Family Polynoidae	
Polynoidae	(DS)
Harmothoe extenuata (Grube)	(Fe, I, DS)
Family Questidae	
Questidae	
Family Sabellidae	
Chone sp. 1	
Chone sp. cf. americanus Day	(I)
Chone sp. cf. duneri Malmgren	(I)
Euchone spp.	(QK, I)
Euchone sp. cf. elegans Verrill	(I)
Euchone sp. cf. incolor Hartman	(I)
Potamilla neglecta (Sars)	(QK, Fe, DS)
Potamilla reniformis (Leuchart)	(I, DS)
Sabella microphthalmus Verrill	(QK)
Family Scalibregmidae	
Scalibregma inflatum (Rathke)	(Fe, I, DS)
Family Serpulidae	
Hydroides dianthus (Verrill)	(I, DS)
Spirorbis spirillum	(DS)
Family Sigalionidae	
Leanira hystricis	(DS)
Pholoe minuta (Fabricius)	(I, DS)
Sigalion arenicola Verrill	(QK, Fe, I, DS)
Sigalionidae	(DS)
Sthenelais sp.	(DS)
Sthenelais boa (Johnston)	(I, DS)
Sthenelais limicola (Ehlers)	(QK, Fe, I, DS)

Table . Continued.

	Projects
Family Sphaerodoridae	
Ephesiella minuta	(DS)
Family Spionidae	
Minuspio cirrobranchiata Day	(I)
Minuspio polybranchiata	(DS)
Minuspio sp. 1	(I, DS)
Polydora sp.	(DS)
Polydora caullervi Mesnil	(I)
Polydora colonia	(DS)
Polydora commenalis	(DS)
Polydora concharum Verrill	(I)
Polydora socialis (Schmarda)	(I, DS)
Prionospio cristata Foster	(I)
Prionospio heterobranchia	(DS)
Prionospio steenstrupi Malmgren	(Fe, I)
Spio setosa Verrill	(QK)
Scolelepis squamata (O.F. Muller)	(QK, Fe, DS)
Spiophanes bombyx (Claparede)	(QK, Fe, I, DS)
Spiophanes wiglevi Pettibone	(I)
Spionidae	(DS)
Family Syllidae	
Dispio uncinata	(DS)
Eusyllis lamelligoa	(DS)
Exogone sp.	(DS)
Exogone dispar (Webster)	(I, DS)
Exogone hebes (Webster & Benedict)	(I, DS)
Exogone verugera (Claparede)	(Fe, I, DS)
Laonice serrata	(DS)
Parapionosyllis longicirrata (Webster & Benedict)	(QK, Fe, I, DS)
Sphaerosyllis erinaceus Claparede	(Fe, I, DS)
Sphaerosyllis hystrix Claparede	(Fe, DS)
Streptosyllis arenae Webster & Benedict	(Fe, I)
Streptosyllis hystrix	(DS)
Streptosyllis varians Webster & Benedict	(I, DS)
Syllis cornuta Rathke	(Fe, I)
Syllis gracilis Grube	(Fe, I, DS)
Syllidae	(DS)
Syllides longocirrata Oersted	(Fe, DS)
Syllides setosa	(DS)
Family Terebellidae	
Polycirrus eximius (Leidy)	(I)
Terebellidae	(DS)
Terebellides stroemi	(DS)
Trichobranchus sp.	(DS)
Class Oligochaeta	
Oligochaete A	(Fe, DS)

Table . Continued.	Projects
Phylum Sipunculida	
Phascolion strombi (Montagu)	(I, DS)
Phylum Mollusca	
Class Gastropoda	
Family Buccinidae	
Colus pubescens	(DS)
Colus pygmaeus (Gould)	(QK, Fe)
Neptunea decemcostata	(DS)
Family Calyptraeidae	
Crepidula fornicata (Linne)	(QK, Fe)
Crepidula plana (Say)	(QK, Fe)
Family Melongenidae	
Busycon canaliculatum (Linne)	(QK)
Family Nassariidae	
Nassarius trivittatus (Say)	(QK, I, DS)
Family Naticidae	
Lunatia heros (Say)	(Fe, DS)
Lunatia triseriata (Say)	(Fe, I)
Polinices duplicatus (Say)	(QK, Fe)
Family Pyramidellidae	
Turbonilla interrupta (Totten)	(QK, Fe)
Family Retusidae	
Retusa canaliculata	(DS)
Family Skeneopsidae	
Skeneopis planorlois	(DS)
Family Trochidae	
Margarites groenlandicus Gmelin	(QK, Fe, I)
Class Pelecypoda	
Order Protobranchia	
Family Nuculanidae	
Nuculana tenuisulcata	(DS)
Nuculanidae	(DS)
Family Nuculidae	
Nucula sp.	(DS)
Nucula proxima Say	(QK, Fe)
Yoldia limatula Say	(I)
Order Filibranchia	
Family Anomiidae	
Anomia simplex Orbigny	(QK, Fe)
Family Aricidae	
Anadara transversa (Say)	(QK)
Family Mytilidae	
Crenella glandula (Totten)	(QK, Fe, DS)
Mytilus edulis (Linne)	(QK, Fe)
Family Pectinidae	
Chlamys nana	(DS)
Placopecten magellanicus (Gmelin)	(QK, Fe, I)

Table . Continued.

	Projects
Order Eulamellibranchia	
Family Arcticidae	
Arctica islandica (Linne)	(QK, Fe, I)
Family Astartidae	
Astarte sp.	(DS)
Astarte borealis Schumacher	(Fe)
Astarte castanea (Say)	(QK, Fe, I, DS)
Astarte undata Gould	(QK, I, DS)
Family Cardidae	
Cerastoderma pinnulatum (Conrad)	(QK, Fe, I, DS)
Microcardium peramabile	(DS)
Family Carditidae	
Cyclocardia borealis Conrad	(QK, Fe, I)
Family Corbulidae	
Corbula contracta (Say)	(QK, Fe)
Family Leptonidae	
Mysella plantulata (Stimpson)	(I)
Family Lyonsiidae	
Lyonsia hyalina (Conrad)	(Fe, DS)
Family Mactridae	
Spisula solidissima (Dillwyn)	(QK, Fe, I, DS)
Family Pandoridae	
Pandora gouldiana Dall	(QK)
Pandora trilineata Say	(QK, Fe)
Family Periplomatidae	
Periploma papyratium	(DS)
Family Semelidae	
Abra lioica (Dall)	(QK)
Family Solenidae	
Ensis directus Conrad	(QK, Fe, I, DS)
Family Tellinidae	
Macoma balthica	(DS)
Tellina agilis Stimpson	(QK, Fe, I, DS)
Family Veneridae	
Pitar morrhuana Linsley	(QK, DS)
Class Pteropoda	
Pteropoda	(DS)
Phylum Arthropoda	
Class Arachnida	
Acarina	(DS)
Class Pycnogonida	
Pycnogonida	(DS)
Class Crustacea	
Subclass Cephalocarida	(DS)
Subclass Ostracoda	(DS)
Subclass Copepoda	(DS)
Subclass Malacostraca	

Table . Continued.	Projects
Order Mysidacea	
Family Mysidae	
Neomysis americana (S.I. Smith)	(Fe)
Order Cumacea	
Family Diastylidae	(DS)
Diastylis lucifera (Kroyer)	(I)
Diastylis sp.	(QK)
Family Leuconidae	
Eudorella difficilis Blake	(QK)
Eudorellopsis deformis (Kroyer)	(Fe)
Family Pseudocumatidae	
Petalosarsia declivis (G.O. Sars)	(I)
Order Tanaidacea	
Family Paratanaidae	
Leptochelia sp.	(QK)
Leptochelia sauignyi	(DS)
Family Tanaidae	
Tanaissus liljeborgi (Stebbing)	(Fe, I)
Order Isopoda	
Family Anthuridae	
Anthuridae	(DS)
Cyathura polita	(DS)
Ptilanthura tricarina Menzies & Frankenberg	(Fe, I)
Family Cirolanidae	
Cirolana concharum (Stimpson)	(QK, I)
Cirolana impressa (Harger)	(QK, Fe, I)
Cirolana polita (Stimpson)	(QK, Fe, I, DS)
Family Idoteidae	
Chiridotea arenicola (Wigley)	(QK, I, DS)
Chiridotea tuftsi	(DS)
Edorea triloba (Say)	(QK, Fe, I, DS)
Order Amphipoda	
Family Ampeliscidae	
Ampelisca sp.	
Ampelisca aequicornis Bruzelius	(QK, Fe, I)
Ampelisca agassizi (Judd)	(Fe, I, DS)
Ampelisca vadorum Mills	(QK,DS)
Ampelisca verrill	(DS)
Byblis serrata Smith	(QK, Fe, DS)
Family Aoridae	
Family Calliopiidae	
Apherusa gracilis Holmes	(QK)
Family Corophiidae	
Corophium sp. 1	(I, DS)
Corophium sp. 2	(I)

Table . Continued.	Projects
Family Corophiidae (Cont.)	
Leptocheirus pinquis (Stimpson)	(Fe, DS)
Pseudunciola obliquua (Shoemaker)	(Fe, I)
Siphonoecetes smithianus Rathbun	(QK, I)
Unciola sp.	(DS)
Unciola dissimilis Shoemaker	(QK)
Unciola irrorata Say	(QK, Fe, I, DSO
Unciola serrata Shoemaker	(I, DS)
Family Haustoriidae	
Acanthohaustorius intermedius Bousfield	(I)
Acanthohaustorius millsi Bousfield	(Fe, I)
Haustoridae	(DS)
Protohaustorius deichmannae Bousfield	(QK)
Protohaustorius wigleyi Bousfield	(QK, Fe, I)
Pseudohaustorius caroliniensis Bousfield	(I)
Family Hyalidae	(DS)
Family Ischyroceridae	(DS)
Family Liljeborgiidae	
Liljeborgia fissicornis (Sars)	(I)
Listriella barnardi Wigley	(I)
Family Lysianassidae	
Hippomedon serratus Holmes	(QK, Fe, I)
Lysianassidae sp. 1	(I)
Family Photidae	
Photis macrocoxa Shoemaker	(I)
Photidae sp. 1	(I)
Podoceropsis nitida (Stimpson)	(I)
Family Phoxocephalidae	
Harpinia propinqua	(DS)
Paraphoxus spinosus Holmes	(QK, I, DS)
Phoxocephalus holbolli Kroyer	(QK, Fe, I, DS)
Trichophoxus epistomus (Shoemaker)	(QK, Fe, I, DS)
Family Pleustidae	(DS)
Family Podoceridae	(DS)
Family Stenothoidae	
Proboloides holmesi Bousfield	(QK, I)
Family Caprellidae	
Aeginina longicornis (Kroyer)	(QK)
Order Decapoda	
Family Cancridae	
Cancer sp.	(DS)
Cancer irroratus Say	(Fe, I, DS)
Cancer borealis Stimpson	(Fe, I, DS)
Phylum Ectoprocta	
Class Gymnolaemata	(DS)(Not identified)
Order Ctenostomata	
Family Alcyonidiidae	
Alcyonidium polyoum (Hassall)	(QK)

Table . Continued.	Projects
Family Vesiculariidae	
Bowerbankia sp. cf. B. gracilis Leidy	(Fe)
Bowerbankia spp.	(Fe)
Order Cheilostomata	
Family Alderinidae	
Callopora sp.	(QK, Fe)
Family Cheiloporinidae	
Cryptosula americana	(I)
Cryptosula pallasiana (Moll)	(I)
Family Echaridae	
Mucronella centricosa (Hassall)	(I)
Family Cribrilinidae	
Cribrilina sp.	(I)
Cribrilina punctata (Hassall)	(I)
Family Scruparilidae	
Scruparia chelata (L.)	(QK)
Family Microporellidae	
Microporella ciliata (Pallas)	(QK, Fe)
Family Schizoporellidae	
Schizoporella errata (Watess)	(Fe)
Family Smittinidae	
Parasmittina sp.	(QK)
Phylum Entoprocta	
Family Pedicellinidae	
Barentsia sp.	(Fe)
Phylum Echinodermata	
Class Asteroidea	
Family Asteriidae	(DS)
Asterias vulgaris Verrill	(I)
Class Echinodea	
Family Arbaciidae	
Arbacia punctulata (Lamarck)	(QK, Fe, DS)
Family Echinarachnidae	
Echinarachnius parma (Lamarck)	(QK, Fe, I, DS)
Class Ophiuroidea	
Amphioplus squamata (Delle Chiaje)	(I, DS)
Ophiura robusta (Ayres)	(I)
Ophiuroid sp.	(QK, Fe)
Class Holothuroidae	(DS)
Phylum Hemichordata	
Class Phoronidae	
Phoronis architecta (Andrews)	(I, DS)

Table . Continued.

	Projects
Phylum Chordata Subphylum Urocaudata Class Ascidiacea *Ascidian* sp.	(CK)

Table VI

Ranking of Most Abundant Species

	Nov.1793		March 1974		Aug.1974	
	rank	no.	rank	no.	rank	no.
Protodrilus sp.	1.	3,901	1.	4,715	2.	6,527
Goniadella gracilis	2	192	3	518	6	237
Exogone verugera	3	177	10	112	2	—
Parapionosyllis longicirrata	4	156	12	96	7	203
Nemertinea	5	120	8	203	—	201
Spiophanes bombyx	6	116	2	572	1	7.266
Echinarachnius parma	7	104	5	301	11	116
Trichophoxus epistomus	8	96	6	277	5	265
Lumbrinereis acuta	9	71	11	100	15	96
Byblis serrata	10	63	9	178	9	162
Unciola serrata	11	61	15	31	—	10
Aricidea cerruti	12	46	13	84	—	—
Nephtys picta	13	37	16	—	2	—
Protohaustorious sp.	14	36	14	51	—	—
Aglaophamus circinata	15	—	4	452	3	710
Exogone hebes	16	—	2	247	4	405

Table VII

Distribution of Feeding Types

	May 1973	Nov. 1973	March 1974	Aug. 1974
Deposit feeder(%)	50	74.5	74.6	86
Carnivore(%)	42.4	11	8.8	3.3
Omnivore(%)	3.5	13.5	13.9	10.1
Scavenger(%)	2.8	0.4	0.3	< 0.1
Suspension feeder(%)	1.4	0.6	2.4	0.6

Table VIII

Species Diversity Indices

Station	No. Species (S)	Simpson (D')	Shannon-Weaver (H')	Margalef (d)
A	32	0.758	2.008	6.018
B*	34	0.657	1.784	6.790
C*	36	0.859	2.517	7.003
D	34	0.812	2.226	6.139
E*	33	0.612	1.646	6.295
F	46	0.611	1.696	7.871
2*	33	0.386	1.111	5.357
8*	56	0.874	2.716	9.344
9	37	0.775	2.070	6.585
17	43	0.752	2.159	7.324
18	45	0.792	2.095	7.382
19	35	0.757	2.052	6.458
20	39	0.709	1.800	6.416
21*	36	0.308	0.940	5.554
22	37	0.711	2.003	6.935
24	33	0.749	2.189	4.946
25	56	0.878	2.912	9.545
26	41	0.809	2.335	7.675
27	39	0.299	0.943	6.371
28	30	0.780	2.216	5.414
29	30	0.386	1.104	4.336
31	24	0.625	1.344	3.882
32	36	0.659	1.798	6.210
33	29	0.660	1.962	5.942
14	30	0.497	1.288	5.222

* Denotes a station within the dumping sites

Table IX

Mann-Whitney U-test on Diversity Indices

Index	Median Dump Site	Control	U	t	P_{Ho}
No. species	35	36	56	0.064	> 0.90
Simpson (D')	0.634	0.752	66	0.573	> 0.50
Shannon-Weaver (H')	1.715	2.008	67	0.636	> 0.50
Margalef (d)	6.542	6.371	51	0.382	> 0.50

Table X

Percent Similarity Matrix

Percent Similarity Matrix

Station	A	B	C	D	E	F	2	8	9	17	18	19	20
A	100.0	49.2	57.1	50.8	52.8	64.0	55.1	29.2	81.7	47.5	61.2	45.5	76.6
B		100.0	53.4	41.1	37.1	36.8	29.2	37.8	48.4	71.3	53.4	74.2	52.8
C			100.0	50.3	47.5	54.1	43.6	36.7	55.1	46.4	63.2	55.2	67.0
D				100.0	47.1	45.4	37.4	50.9	46.8	54.9	69.1	37.6	48.0
E					100.0	71.7	75.6	26.6	48.9	38.3	60.5	31.9	65.4
F						100.0	71.5	26.8	59.7	34.9	56.4	34.3	71.0
2							100.0	14.8	51.7	27.8	47.3	25.6	63.4
8								100.0	31.2	51.8	56.1	34.7	30.6
9									100.0	46.1	62.5	43.3	70.4
17										100.0	63.5	69.0	48.8
18											100.0	48.9	68.0
19												100.0	52.8
20													100.0

Percent Similarity Matrix

Station	21	22	24	25	26	27	28	29	31	32	33	14
A	49.9	51.7	13.5	9.9	50.9	48.9	42.5	37.1	74.3	49.2	38.9	58.3
B	23.8	77.7	23.5	18.8	61.6	22.2	61.3	67.8	66.1	75.5	71.2	34.6
C	37.6	53.9	21.2	18.2	45.4	37.8	38.2	35.9	54.7	39.7	38.0	49.0
D	35.2	36.5	48.4	39.4	63.8	34.5	39.1	28.9	47.3	35.6	27.3	40.2
E	72.5	30.1	23.9	23.7	34.3	69.3	22.9	16.5	52.4	23.5	16.2	72.8
F	68.7	37.1	13.5	13.2	36.1	68.4	29.0	27.7	62.4	32.6	26.5	75.7
2	90.4	28.5	12.1	9.9	26.3	88.5	18.9	16.8	53.5	23.3	17.3	82.5
8	13.3	33.2	55.4	41.5	55.7	13.6	47.5	35.1	28.5	35.1	41.8	18.2
9	45.6	50.3	14.4	11.6	47.3	46.4	40.0	36.2	68.0	52.3	40.2	58.7
17	24.5	69.1	36.5	28.4	73.0	22.0	69.7	69.8	63.5	64.9	60.9	28.8
18	44.1	48.9	39.9	34.5	66.7	43.1	44.7	38.1	60.6	42.3	40.5	50.8
19	21.0	69.1	21.1	16.0	56.8	19.2	61.8	57.0	61.4	64.0	60.1	30.7
20	58.4	52.4	16.4	11.1	46.9	55.2	38.8	36.8	74.8	42.5	38.2	67.2

Percent Similarity Matrix

Station	21	22	24	25	26	27	28	29	31	32	33	14
21	100.0	23.7	9.8	12.2	22.6	93.0	15.8	13.9	49.5	18.5	11.6	77.3
22		100.0	18.7	16.2	57.2	21.7	58.2	66.9	64.7	69.3	67.4	32.1
24			100.0	42.1	39.9	10.1	34.3	19.1	14.3	19.9	27.3	10.7
25				100.0	34.7	11.4	26.8	18.1	9.9	16.0	15.0	8.4
26					100.0	22.5	57.9	49.6	53.9	53.7	50.7	29.2
27						100.0	15.1	14.3	47.2	18.7	11.8	77.7
28							100.0	59.8	55.3	62.3	58.2	20.3
29								100.0	56.2	70.3	68.5	18.8
31									100.0	62.4	53.6	54.8
32										100.0	67.9	24.8
33											100.0	22.3
14												100.0

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